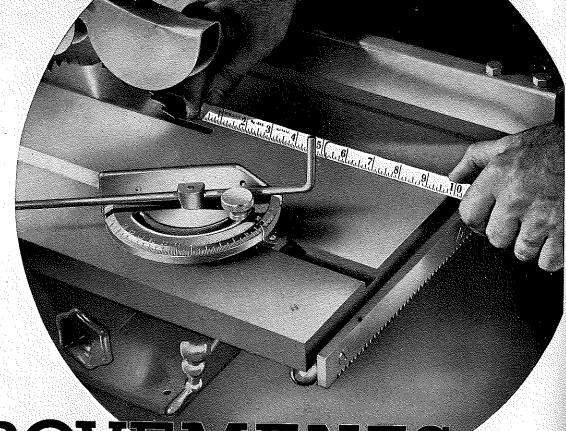


Larger Capacities

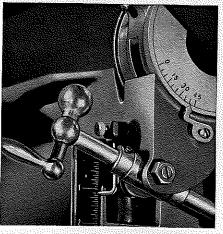
Wards Powr-Kraft Tools are really oversize tools-they do a bigger range of work, and do it easier. Our 8-in. Table Saw, for example, has 9 full inches of table ahead of the blade, where the usual space is less than 6 inches! Our \$4.95 Jig Saw has 12-inch throat instead of the usual 10 inches! Wards \$4.95 Lathe gives you 8-inch swing instead of the usual 6 inch! We had to design a complete new line of tools to give you these advantages-no existing tools offered them! And you don't pay more-in fact you actually pay less for these extra capacities in Wards Powr-Kraft Tools!



IMPROVEMENTS— Every Shop Owner Wanted

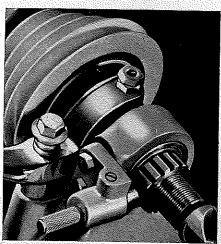
Finer Precision

Here, too you get another feature you've always wished for—permanent and hair-line accuracy of adjustment! Complete redesigning made this possible! You'll find finely calibrated gauges—finely threaded controls—massive trunnions—and more of them on Wards tools! And by big, handy ball-cranks and wheels, we've put this measured, micrometer adjustment at your finger tips! Check for these features when checking value—you'll decide on Ward's tools!



Greater Strength

Here you see how Wards have built permanent alignment and rigidity into each tool, and eliminated vibration, by the use of heavy, seasoned close-grain iron castings, in place of steel stampings! That's why these tools can handle—easily—the heavier work their larger capacities permit. That's why the net (uncrated) weight of Wards tools is far above the average—all extra quality, extra value for you!



Wards bring Shop Owners the biggest news in years! A brand new line of Power Tools has been designed—new from stem to stern! Now you can have larger capacity, finer precision, and greater strength of the kind formerly built only into heavy, industrial type machines! This big step forward means you can do practically all the jobs in the average home shop—and do them easier—without having to buy expensive "extras" and extensions!

Every page of this book brings you news of these important improvements! See how it is possible to do bigger and more accurate work even on Wards \$4.95 Lathe, as well as on our \$34.95 Lathe and on Wards Band Saws, Table Saws, Drill Presses—Read how it is possible to do smoother, truer work on Wards \$10.95 Jointer, with its extra-long, milled ways—on Wards \$13.75 Spindle Shaper with its micrometer controls on each adjustment!

Wards Powr-Kraft Tools do finer precision work because they are built to closer precision at the factory. The Spindle on our \$34.95 Lathe is machined to 1/5000 of an inch—but even our shafting, at 23c a length, is ground to 1/1000 inch!

These are expensive improvements—but absolutely necessary to accuracy and simplicity of adjustments—so Wards include them at these prices. For really modern power tools, buy Powr-Kraft!

You Can Buy on EASY PAYMENTS

On orders totaling \$20 or more, you can buy Powr-Kraft Tools with a small down payment and low monthly payments. Build your order up to \$20 and take advantage of this easy plan. Just be sure to use Easy Payment Order Blank, and follow table at right.

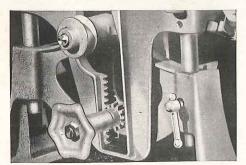
If Cash Price of Your Order Amounts to	Add for Easy Payment Price	First Pay- ment With Order	Monthly Payments
\$20.00 to \$25.00	\$2.50	\$3.00	\$4.00
25.01 to 30.00	3.00	3.00	5.00
30.01 to 35.00	3.50	4.00	5.00
35.01 to 40.00	4.00	4.00	5.00
40.01 to 50.00	5.00	5.00	5.00
50.01 to 60.00	5.50	5.00	6.00
60.01 to 70.00	6.50	6.00	7.00

ESTIMATED FREIGHT CHARGES

on Powr-Kraft Tools per 100 lbs.; 100 mi. 67c; 200 mi. 93c; 300 mi. \$1.46; 500 mi. \$1.86; 750 mi. \$2.27; 1000 mi. \$2.77.

EASY PAYMENTS on \$20 Orders or More See Page 2 **4 EXTRA FEATURES New at This Low Price** Table (not blade) raises and lowers no belt adjustments Table swings on trunnions, tilts and locks at any angle up to 45 degrees accurate on every job Combination saw, miter gauge, rip fence, guard and splitter included Beautiful gray enamel finish—baked on. Easy to clean

Trunnion mounting of tilting table gives unusual rigidity and smoothness, insuring absolute accuracy on every job. This construction permits a narrower, safer slot in table and prevents binding. Locks positively at any angle up to 45 degrees. Positive stops at 45 degrees and horizontal. Note the simplicity and sturdy construction of every part.



Depth of cut is regulated by a convenient hand wheel which raises and lowers the table-not the saw! This construction enables you to place your motor either behind or below the saw—belt tension, once adjusted, "stays put." New and improved locking device locks table in position without changing the adjustment! Note the sturdy steel posts at both front and rear, giving firm support to table. ½-in, shaft.

Wards 7-in. Powr-Kraft

BENCH SAW

EASIER TO USE - MORE ACCURATE IN ADJUSTMENTS

- · Rips, cross cuts or miters clean and fast
- Depth of cut full 21/4 inches
- Heavy cast iron throughout—will not warp
- Weighs over 31 pounds—runs steady and smooth
- 7-inch combination crosscut and rip blade
- · Designed to meet all state safety codes
- Saw blade perfectly guarded at all times
- Accurately ground heavy cast iron rip fence
- \bullet Smooth top, machine ground cast table, size 10 by $14\frac{1}{2}$ inches. Height $8\frac{1}{2}$ inches to table top
- Table insert permits use of dado head or sanding
- Large oilless bronze bearings for long wear
 Convenient splitter back of guard prevents binding and stalling of saw

Needed in Every Home Work Shop

Just about the handiest tool you could install in your home work shop. It cross-cuts, rips, miters and grooves with speed and accuracy. The full 2½-inch cut gives you a capacity equal to much higher priced saws. Every part designed to give the longest possible service and the utmost in convenience.

It's easy to use Wards Powr-Kraft Bench Saw. Just a simple turn of a hand wheel and the table raises or lowers—the saw blade remains stationary. You don't have to adjust the tension of the belt every time you change the cutting depth of your blade.

The trunnion construction of the tilting table is another very convenient feature you'll find only in higher priced saws. Of course it costs more to build this way but it gives you absolute rigidity and accuracy not obtainable by any other method. The sturdy rip fence is heavy cast iron and accurately ground—it can't warp or twist. Easily adjustable and locks solidly.

A substantial miter gauge enables you to do correct cross-cutting and mitering. It slides at the touch of your thumb in a close-fitting, accurate groove. Table insert permits the use of dado head or sanding disc. (Dado heads and other accessories are shown on Page 21.)

The saw guard is designed to meet all State Safety Codes. It raises as work is fed to the saw and is easily swung out of the way if desired. A convenient splitter back of the guard prevents your blade from binding.

Nicely finished in durable gray enamel, baked on. Equipped with $1\frac{1}{2}$ -inch pulley. Speed 3500 R.P.M. We recommend $\frac{1}{3}$ H.P. electric motor shown on Page 23. ($\frac{1}{4}$ H. P. will handle but work will be slower). Shipping weight 37 pounds.
484 WM 873—Complete.....

Wards Powr-Kraft HEAVY-DUTY 8-IN. Designed for Home, School or Shop-



- Ball-crank raises and lowers table to control depth of cut. Easily read scale.
- New Departure Ball Bearings for smooth, easy, vibrationless operation.
- Table Tilts on big smooth acting trunnions.
- Cuts to depth of 23/8 inches. Rip or cross-cut.

Larger Capacity - Greater Weight - Improved

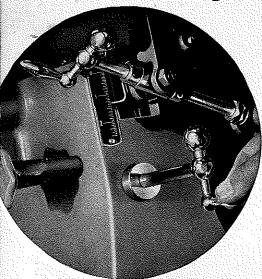
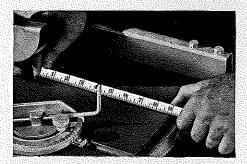


Table Raised by Ball-Crank

Let's suppose you want to adjust the table to make a \(\frac{9}{6}\)-inch groove—exactly \(\frac{9}{6}\)-inch. It's as easy as winding a clock. Just turn the handy ball-crank until the pointer is opposite the \(\frac{9}{6}\)-inch mark. Then lock securely with the hand wheel on the side——a lock that does not disturb the depth adjustment. The ball-crank operates gears in racks on each of the two 1\(\frac{1}{6}\)-inch posts, raising or lowering the table smoothly and without binding. The saw remains stationary—belt tension "stays put".

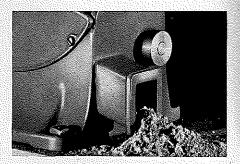


Full 9 Inches of Table Ahead of the Saw

More space because you need more space! It gives extra room ahead of the saw to allow effective use of the miter gauge for proper squaring of work. Also braces and steadies when cutting extra wide stock. You're sure of doing a better job, whether cross-cuting, mitering or ripping. No special front extension is needed. The full 9 inches is always there, the table measuring 20 inches front to back and 16 inches in width—An exclusive Powr-Kraft feature.

We know of no other saw under \$75.00 that has a full 9 inches of built-in table space in front of the saw. It means everything to the man in the shop or factory. To turn out good work he has to have table room for the wider boards. With this extra space, he can do better work and do it faster.

This is just one of the many features that make Wards 8-inch Bench Saw so much more suitable for the job. It's built to stand up under the hard service required in school use and plenty heavy for daily production work in factories and shops.



Handy Sawdust Chute Keeps the Shop Clean

No need now for throwing sawdust all around the workshop, all over the bench, or under your feet. Now Wards Powr-Kraft Bench Saw puts the sawdust right where you want it. A chute delivers it at the rear of the machine, and you can attach a bag to catch it there or a pipe to carry it on down to a bin. That's convenience and time saving.

This feature will be much appreciated in home workshop and factory as well. For not only does it keep the shop clean but it saves you time. Any craftsman knows how small tools like drills and wrenches have a way of getting on the floor and being swept out with the sawdust.

Note also how the base is enclosed. Helps to prevent carelessly passing your hand under the machine and contacting the blade of the moving saw. An easily removed panel is provided for exposing the understructure when changing saw blades. Remember that these are conveniences usually found only in the higher priced Bench Saws.

PRODUCTION SIZE BENCH SAW Zips Through Any Wood Like Magic!

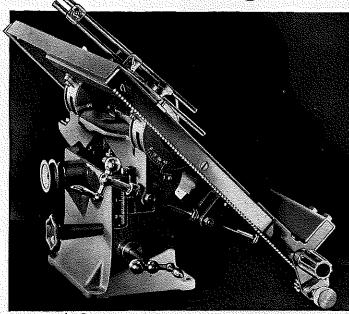
The kind of tool that makes a man hum tunes at his work... smooth-running, easy to handle and fast, clean, accurate cutter. Stocky, weighty and steady . . . 85 lbs. as it sets on your bench. uncrated! Every evidence of fine workmanship, big capacity and a lifetime of profitable utility. Simple, business-like, convenient adjustments . . . man-sized polished ball-cranks that turn smoothly and easily . . . nicely finished surfaces.

Except for pulley, miter gauge and guard this bench saw is constructed throughout of heavy, seasoned, non-warping cast iron. It is built to take the most severe service any school or busy shop can give it. Actual photographs, with descriptions of many of the features are shown on these two pages.

Smooth, Positive Tilting Action

At the right is shown as sturdy, as true and as smooth acting a tilting mechanism as ever was put in a bench saw. Two unusually wide trunnions are rigidly fixed to the table top at front and rear. Having large contact surfaces and being very closely machined and fitted they serve to tilt the table with remarkable smoothness and accuracy. A few quick turns of the handy ball-crank runs the table top over to the required degree. The exact angle is indicated on scale located on the side of the front trunnion.

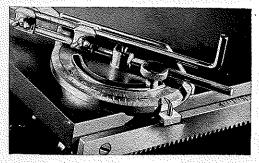
The saw blade is our standard 8-inch combination rip and crosscut as described on Page 21. A removable insert in the table top permits attaching Dado heads, sanding discs, etc. The guard is an approved sensible type that always covers the blade. It swings out of the way when necessary. A splitter prevents binding of the blade. The heavy 5/8-inch spindle runs on two heavy New Departure bearings grease-sealed for all time. With table at lowest position the saw is 9 inches high to top of table. Motor may be below or behind saw. Finished in durable baked gray enamel.



Only \$ DOWN Puts this Bench Saw to Work in Your Shop

Includes 8-in, comb. cross and rip saw, rip fence, miter ga., guard, splitter, 2-inch pulley. Run at 3600 R.P.M. We recommend a Powr-Kraft 1/3 H.P. motor No. 484 WM 9811 or 1/2 H.P. motor No. 484-WM 9812 for ordinary work. For production work a 1/2 H.P. Powr-

Design – Quick, Easy Adjustments – Precision Gauges

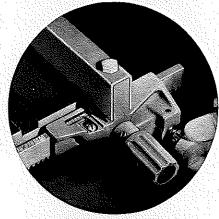


Accurate Miter Gauge Massive—Easy to Use

A precision gauge. Swing it to the angle you want, lock it tight with the strong lock screw, place your material along the machine ground face and you're ready for the cut. It makes quick work of cutting true squares or angles. Panels of all sorts, screen frames and trim can be cut with complete assurance of correct fitting. An easily read and accurately graduated arc gives you the desired angle. Two removable cut-off rods for repeat work are mounted on top of the gauge.

The gauge is mounted on a large 3/4 by 1/6-inch steel slide which fits closely in the machined table groove. Two grooves in the table top permit the gauge to be used on either side of the saw.

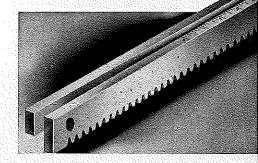
The gauge being such a highly important feature of any bench saw, Wards have spared no effort to provide a thoroughly practical type—one that even the most exacting worker will appreciate. It is included with the saw . . . not an extra.



A Rip Fence You'll Like

Now a gear and rack arrangement permits setting the sturdy rip fence with real accuracy. By means of a pinion which engages a rack cut in a heavy solid steel bar you move the rip fence right or left. If you prefer, disengage the pinion and slide the fence along the bar, which is graduated in eighth-inches. A turn of the locking handie locks the fence securely and always parallel with the saw blade. Fence may be locked at rear end of table if desired.

The fence itself is heavy construction to prevent warping [or twisting, and may be used either to right or left of saw blade.



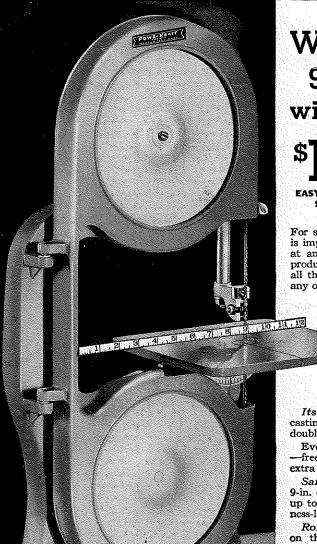
Triple the Width of Your Table!

Increases the distance between the saw and rip fence to full 24 inches! You can rip to the center of a 4-foot panel with the work accurately guided! These extension rods, easy to attach and low in cost, give the user of the Powr-Kraft 8-in. saw all the capacity of the big expensive machines.

Without the extensions, if you should need to rip an extra wide panel, the best you could do would be to remove the rip fence, draw a pencil line on your panel and saw as nearly to the line as your eye would permit.

Two solid steel bars are furnished, fitting quickly on the front and rear of table. The rip fence is then attached and operated just as on the regular table. Shipping weight per pair 7 pounds. 84 WM 662—Extension Rods.

Pair\$2.50 MONTGOMERY WARD 5



Wards Powr-Kraft 9-inch BAND SAW with Extra Heavy Frame

See Page 2

- All heavy, gray cast iron!
 Cuts to the center of an 18-inch circle.
- Handles wood 4½ in. thick.
- 1-piece safety guard.
- Table tilts on heavy trunnion-unusually rigid.

For smooth-running, effortless sawing this Band Saw is impossible to equal at the price—and hard to beat at any price! For the home workshop, or for light production, it will "stand the gaff" for years and take all the work you can feed it! We believe it superior to any other 9-inch band saw made.

For example, note its sturdy, rigid construction. It is strong and rugged because it is made throughout of seasoned, cast gray iron—non-warping, rigid as larger machines.

Its deep channel frame is cast in one piece, with many reinforce-ments, eliminating all of the springiness and insuring the true lining up of wheels always.

Its tilting table, 9 by 9 inches, is a heavy reinforced casting too (not a stamping), mounted on a huge double-way trunnion.

Even its one-piece swinging saw guard is cast iron free from rattles. And all that extra weight means extra sturdiness, rigidity, and fine performance!

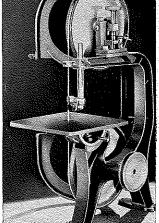
Safe disc type wheels, 93/8 in. diam., give it a full 9-in. cut, while its large clearance allows sawing stock up to 41/4 in. thick, with guards closed—with a business-like, effortless cut that will amaze you!

Roller saw guide is designed to permit blade to run on the edge (not the side) of the hardened steel roller, eliminating friction and blade breakage.

Gray baked enamel finish. Height 26 in. We recommend 1/3 H.P. motor although 1/4 H.P. will handle this saw on ordinary work. See Page 23. Run at 875 R.P.M. Easy Payments on Page 2.

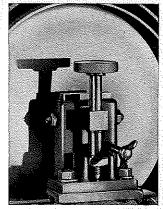
484 WM 870—9-in. Band Saw, with 1/4-in. \$13.75 blade and 4-in. "V" pulley. Ship. wt. 45 lbs.

Rigid Alignment and Precision Adjustments Mean Finest Performance



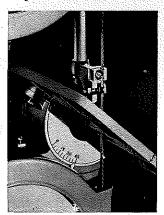
Extra Heavy for Extra Rigidity

Strongly reinforced, semi-box frame of heavy gray iron, cast in one piece—non-warping, rigid, vibrationless! One-piece cast safety guard swings open for changing blades. Note the extremely long bearing on the wheel and pulley—the sturdiness of the whole machine!



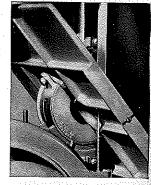
Balanced Wheels for Smooth Operation

Heavy cast 9% in. disc wheels are carefully machined, accurately balanced, and run on long oilless bronze bushings. Rubber tires. Comfortable hand screws—the same as on high priced machines—make blade tension and wheel alignment instantly adjustable,



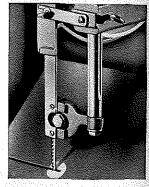
No Vibration to This Table!

Heavy, reinforced, cast iron table, Heavy, reinforced, cast iron table, mounted on giant double-way trunnion for utmost rigidity! Table is 9 inches square, is surface ground, and has aluminum inset to protect blade. Graduated scale for accurate settings through 45 degrees. Squaring screw for instant levelling. Locks with lever,



Trunnion Mounting

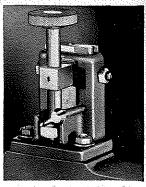
Heavy 12 by 12-inch cast table is mounted solidly on a huge doubleway trunnion. This assures rigidity and keeps the blade in the center of the opening. Table tilts to 45 degrees and locks rigidly at the twist of a lever. No wrenches needed.



Roller Guides

Blade runs on edge, not side, of hardened steel roller guides-reducing friction to a minimum. Guides placed below as well as table for most accurate work.

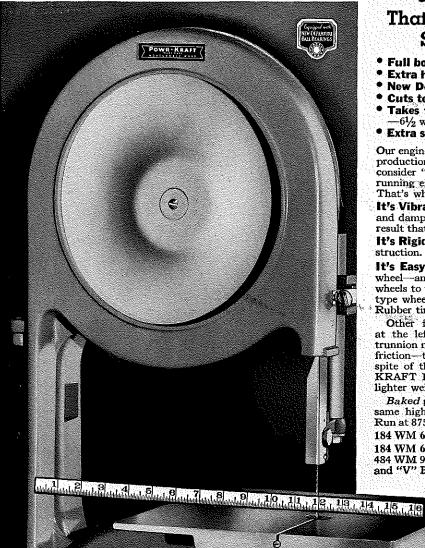
Note also how safety guard. attached to adjustable guide, covers blade except at cutting point.



Easy Adjustments

Wheel alignment and blade tension are very quickly and easily adjusted, without tools, by these large comfortable hand screws-and once adjusted, they stay adjusted. This is the same sturdy style of positive adjustment as is used on large factory band saws.

We've Put Twice the Needed Strength into Wards Powr-Kraft BAND SAWS!



That's Why This 12-Inch HEAVY DUTY
Saw Is One of the Finest Made

• Full box frame—cast in one piece

Extra heavy weight-83 lbs. net

• New Departure Ball Bearings in top wheel

Cuts to center of 24-in. circle

Takes full 5¾-in. stock with guard closed
 —6½ with guard open

Extra sturdy, for home, school, or shop

2395 Cash Price

\$3 down
\$4 A MONTH

Our engineers designed this Band Saw from their experience with expensive production tools. They made it twice as strong as most people would consider "strong enough" because they wanted it rigid enough—smooth-running enough—to be used day after day by professional woodworkers. That's why it out-performs many saws which sell for twice our price!

It's Vibrationless because heavy castings of the finest gray iron absorb and dampen the vibrations from even the toughest sawing jobs, with the result that you can follow a line through the heaviest stock with ease.

It's Rigid because the one-piece cast iron frame is heavy, full box construction. It can't warp, spring, or get out of line; always runs true.

It's Easy Running because New Departure ball bearings in the upper wheel—and long, oversize, oilless, sleeve bearing in the lower—allow the wheels to turn with an absolute minimum of friction loss. These safe, disc type wheels are 12% in. diameter and perfectly machined and balanced. Rubber tires insure quietness, as well as long saw life.

Other features of superiority are described and pictured below and at the left (opposite page)—the heavy 12 by 12-in. cast table with trunnion mounting—the sensible roller guides that practically eliminate friction—the safe saw guard that protects blade at every point. Yet, in spite of this advanced design and heavy construction, Wards POWR-KRAFT Heavy Duty Band Saw is actually lower in price than many lighter weight saws.

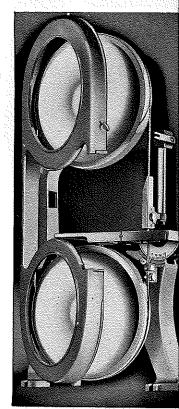
Baked gray enamel finish. Height overall, 33½ in. Has ¼-in. blade of same high quality as shown on Page 21, and with 6½-in. "V" pulley. Run at 875 R.P.M. Easy Payments on Page 2.

Heavy Construction

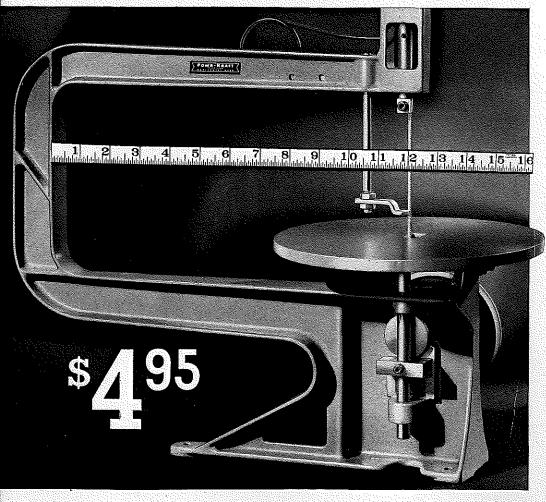
Heavier than any other band saw we've ever seen selling at anywhere near this price. That's why Wards POWR-KRAFT Heavy Duty Saw is vibrationless—why it is rigid and solid—why it stays in permanent, freerunning alignment, and turns out perfect work for years after other saws are worn out. Its full box, hollow frame is cast in one piece of heavy gray iron—as rigid and sturdy as much larger machines. The smoothly machined table is heavy cast iron too, solidly mounted on a heavy double-way trunnion. Even the one-piece swinging guard is cast iron—free from rattles—and it opens easily for quick changes of the saw blade.

Nothing equals cast iron for permanency and freedom from warping, and that's why we've used so much of it in our Heavy Duty saw—full 83 lbs. of it!

Now note the strength of the heavy, adjustable rod that holds the saw guide;—it keeps the blade from bending and breaking and allows you to follow the most intricate line perfectly. And below the table is the same sensible, sturdy type of roller guide as above. All these details of strength and weight mean a solid machine—always in perfect line—delivering accurate work.



20% MORE CAPACITY - 18% MORE WEIGHT



in Wards *Powr-Kraft* 12-in.JIG SAW

Compare this Jig Saw with any other offered at this price. You'll find that—

Others have only a 10-inch throat—the POWR-KRAFT has a 12-inch throat.

Others handle stock about 2 inches thick—the POWR-KRAFT handles 21/8-inch stock and does it easily without stalling!

Others have a stamped steel table—the POWR-KRAFT has a surface ground, cast table for utmost rigidity and smoothness.

You'll find the POWR-KRAFT at least 18 per cent heavier in weight—consequently stronger, sturdier, and freer from vibration. Compare all of these important features before you buy. You'll find they would cost you a lot more anywhere else:

- Extra heavy—over 14 lbs. net—for rigidity and quietness and smooth operation.
- Deep throat for full 12-inch cut.
- Handles stock up to 2% inches thick.
- Tempered steel action has long life.
- Torsion type return spring reduces blade breakage—a money and time saver.
- Heavy cast table, 8½ inches in diameter, tilts to 45 degrees in one direction.
- Extra long bearing means long service and smooth action.
- Tempered blade guide and hold-down foot. Easily adjusted for thickness.

You've Always Had to Pay Much More for a Jig Saw with *Features Like These*

What a Saw for \$4.95!—a heavy, sturdy, sweet-running piece of machinery on which you can do fine, accurate work with ease. Yet it will stand up to heavy work too—with it you can cut to the center of a 24-inch circle, in wood 2% inches thick! And it will deliver this kind of satisfaction for years!

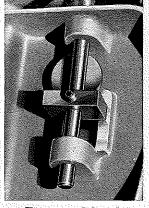
Judge its sturdiness, its smoothness and quietness, from its net weight (unpacked) of 14 lbs. It weighs so much because it is made throughout of heavy, close-grained, gray cast iron—as solid as a bridge!

Nor is weight the only thing that makes this saw run better and last longer. Notice the thick, rigid, adjustable rod that holds the hardened steel saw guide and hold-down foot. See how the heavy base is carried back to assure extra solid mounting. Read about the smooth, long-wearing action of hardened nickel steel.

The carefully fitted drive shaft runs in extra long bearings, assuring long life and smooth operation. The upper head has double bearings, to keep the blade working absolutely straight up and down at all times. The lower bearing is double too, spaced widely to be entirely free from the usual chatter.

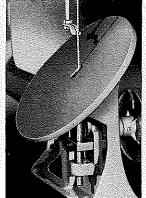
These quality details—this size and weight—are revolutionary in a jig saw at anywhere near Wards low price. They mean to you that at last you can have a really fine power tool without spending the money that fine tools have always cost until now!

Attractive gray baked enamel finish. Height overall 16 inches. Uses plain end blades. Furnished with 3-inch V pulley. (Use 1½ or 1½-inch pulley on the motor or line shaft.) Our ½-H.P. POWR-KRAFT motor (Page 23) will handle this saw nicely.



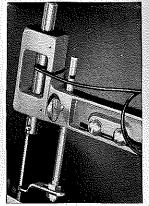
Tempered Steel Cam Action

Smooth-working and longwearing!—A tempered steel cam, working against a tempered steel block, which rides on a machined surface! —Expensive construction, but it will show no sign of wear long after actions made of softer metal are completely worn out!



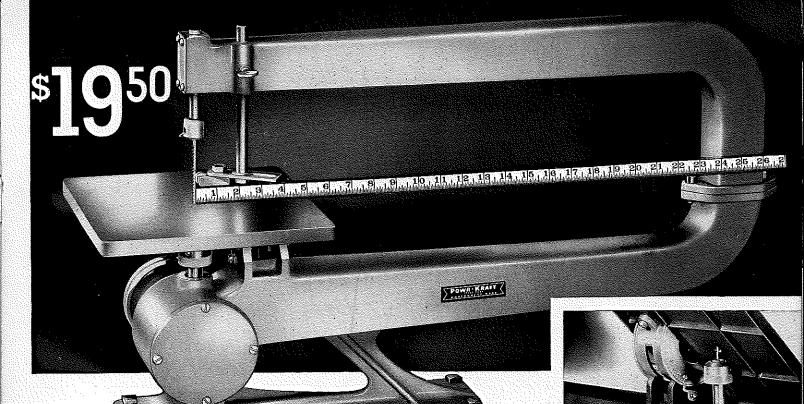
Heavy Cast
Tilting Table

A heavy iron casting—not a mere stamping! That means a solid working surface. It's smoothly ground to perfect flatness, and it stays that way! Tilts through 45 degrees and locks rigidly in any position. Handy stop allows instant return to level.



Torsion Type Return Spring

Less blade breakage because this heavy, positive-action, torsion spring assures an even tension at all times and at all of the points of the stroke. That means smoother operation too, as does the two-bearing head stock that prevents chatter.



Wards Powr-Kraft Heavy Duty 24-inch SCROLL SAW.

Latest BOX FRAME Construction for Smoother-Vibrationless Operation

- Full box frame assures permanent rigidity.
- · Heavy cast iron—weighs 60 lbs. uncrated prevents vibration at any speed.
- · Balanced crankshaft and hardened steel movement, running in bath of oil.
- Universal chuck takes all types of blades, saber blades, files, sanders.
- · Cast tilting table, surface ground.
- Air pump blows away sawdust.
- Takes work 1\% inches thick easily.

The Choice of Skilled Craftsmen

Pattern shops—cabinet makers—factories—use this Scroll Saw for daily production work. We've built it to their rigid requirements, but priced it to yours. Now you can have, in your own home shop, a scroll saw equal to any job!

In building this saw, our engineers set out to eliminate vibration as far as humanly possible. It is vibration that wears out bearings—loosens precision adjustments—makes fine work impossible. Because the POWR-KRAFT Heavy Duty Scroll Saw is so nearly vibrationless, it enables you to do the most exacting work-follow the most intricate lines—easily! Yet it is so sturdily constructed that it will bite through the toughest job and is always hungry for more!

Extra Heavy Construction

Full 60 lbs. of the finest, seasoned, gray cast iron make this the heaviest machine offered within many dollars of this price. And all that extra weight is put where it will do real good, not merely into a heavy base. Its big rigid, full box style cast arm, and its heavy, solidly mounted cast table all mean one thing-freedom from vibration.

Precision Performance

Smooth operation and long life are further assured by finest possible construction and fitting of every working part. The balanced crankshaft, and the hardened steel movement, are enclosed in a dustproof housing and run in a constant bath of oil. The upper chuck spindle runs in two oilless bearings, keeping the blade absolutely vertical. The return spring is of the heavy torsion type, proved the most reliable in maintaining even blade tension.

This is expensive construction, but it practically eliminates wear, reduces vibration still more, and results in a quiet, easy-running machine that is a joy to operate!

Ideal for All Scroll Work

Both chuck jaws can be turned at right angles to cut long pieces without removing the arm. Chucks hold any type of blade—finest jewelers' blades heavy blades-saber blades-metal cutting blades -files sanding pencils. You can do any type of work on this scroll saw that can be done on any scroll saw!

Be sure to read all the features above and to the right. Then compare with any other scroll saw built. You'll find Wards POWR-KRAFT Heavy Duty cannot be equalled at near its low price!

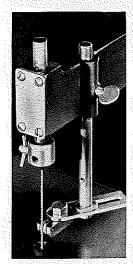
Overall height 19 in. Finished in durable baked gray enamel. Equipped with 4-in. V pulley. Run at 800 to 1200 R.P.M. Requires 4-H.P. motor. See Page 23. Est. Freight Charges, Page 2.

184 WM 664—Scroll Saw only, with \$19.50 out motor. Ship, wt. 78 lbs......

Easy Payments on \$20 Orders or More—See Page 2

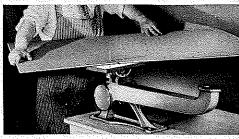


As sturdy as a battleship! Heavy cast 10½ by 10½-inch table mounted solidly on large double-way trunnion, giving the greatest possible rigidity. This permits smaller opening in table too, because blade can be kept steadily in the center. Table tilts 45° in either direction and locks firmly with eccentric cam lever.



Hardened Roller Guide

Longer blade life assured because the assured occause inc blade travels on edge, not side, of freely turning, hardened steel roller guide—re-ducing friction to a minimum. Guide held by extra heavy, rigid supporting rod and is easily adjusted to accommodate work of various thickness or saw blades of different widths. Note enclosed head, with oilless bearings so no oil can drip on work. In it, a heavy torsion type return spring keeps blade at even



Arm Removable for Unlimited Capacity

Work on pieces of any size—make cut-outs from wall board, etc. Heavy universal chuck makes use of saber blades practicable. Since they do not require the support of the upper arm, we have made it removable to give this scroll saw un-limited caracter.

Greater Accuracy - Easier Operation





Protection

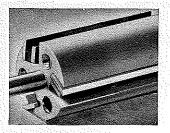
Heavy Cast safety guard swings open as work is fed in and returns to position as work passes cutter head. Its tem-pered spring assures quick automatic return; therefore blades are guarded at all times. Guard easily removed.



Convenience

No clogging of chips under a Powr-Kraft jointer. The extra high base permits easy removal. Convenient eccentric cam lever on side of base locks front table solidly at any height—no wrenches needed.

Note also the long milled ways on which tables slide. They keep tables absolutely parallel, even with heaviest stock.



Efficiency

Round type safety head with accurately ground steel shaft running in large, oilless, bronze bearings. Head is dynamically balanced after blades and chip breakers are installed.

The three 4-in blades are of high speed tool steel (not ordinary carbon steel) and hold a razor edge. They are easily removed for sharpening.

Wards Powr-Kraft **HEAVY-DUTY JOINTER**

 Blades of High Speed Steel cut up to 4 in. wide, with $\frac{1}{4}$ -in. maximum depth.

Oilless Bronze Bearings—no oil on your work. Extra large $(1\frac{1}{4}$ -inch) for perfect alignment of cutter.

Extra Long Tables, surface ground.

Extra Long Milled Ways—unusually rigid at all adjustments.

 Extra Heavy, non-warping cast iron throughout.

EASY PAYMENTS on \$20 Orders or More See Page 2

The Jointer is the one tool on which every operation must be perfect. It must produce work free from roughness and cupping, true from end to end, square on all edges. Because Wards engineers felt no low-priced jointer came up to these standards, they designed one that would!

They made it heavier (26 lbs. net) so it would be solid. They gave it long, accurately ground tables to support heavy work without teetering. They gave it extra long milled ways, so the tables could be accurately adjusted for cutting depth and then locked solidly-always exactly parallel. The cutting blades they made of high speed tool steel (not ordinary carbon steel) so they would take a keener edge and hold it. They mounted the cutter head on an accurately ground shaft, and dynamically balanced it after the blades were installed.

Instead of the usual 3,600 revolutions per minute, they designed this machine for speeds up to 5,000 to 6,000 revolutions, with a consequent greater smoothness of cut-15 to 18 thousand cuts per minute!

The result is a jointer we believe to be the finest within dollars of its price! Simply run your board over it once. Result: a smooth, straight, square surface without a ripple!

Its sturdy rip fence is self-aligning, simply by tightening the hand knob, and its protractor scale enables you to set it accurately to any angle up to 45 degrees.

Tables are 51/4 in. wide at narrowest point and are raised and lowered by convenient hand wheels. Front table has rabbeting arm. Lgth. 20 in. Ht. 51/2 in. to table top. Baked gray enamel finish. Furnished with 1½-in. pulley. We recommend $\frac{1}{3}$ H.P. motor, but $\frac{1}{4}$ H.P. can be used for light cuts. See page 23. Ship. wt. 31 lbs.

484 WM 667—Jointer, without motor \$10.95

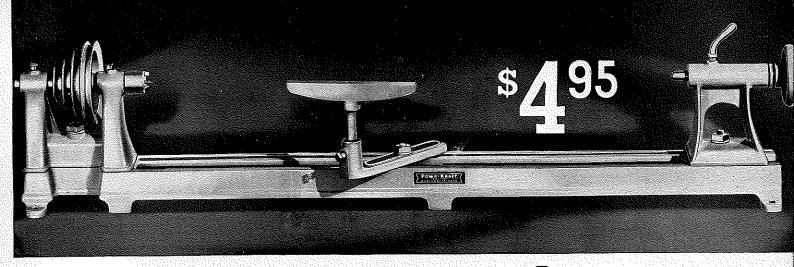
Wards Powr-Kraft Adjustable BELT SANDER

Now you can't afford not to have a Sander! This inexpensive power tool eliminates tedious hand sanding and does the job better-makes flawless surfaces and sharp, square edges in a fraction of the time.

Its revolving abrasive belt runs over non-slip, rubber covered wheels that are held in perfect alignment by two adjustable steel rods mounted on the heavy cast base. wheel shafts run smoothly in long 3-inch bearings, equipped with oilers. The heavy cast top is surface ground for absolute trueness and securely anchored on heavy upright steel rods. The sturdy fence is adjustable to any angle; quickly removed.

Durable baked gray enamel finish. Length overall 131/2 in. Ht. 51/4 in. to table top. Table is 4 by 8 in. Uses 3 by 30-in. sanding belt. Run at 1200 R.P.M. Comes complete with 2-in. pulley and one medium belt. For coarse, fine belts see Page 21. 484 WM 877—Sander, Ship, wt. 12 lbs.....





ALL THE FEATURES and Size of Most >> LATHES!

- Big Capacity—8-Inch Swing—27-Inch Centers
- Rugged Strength—Weighs Over 21 Lbs. Net
- Thrust Ball Bearing Head—4 Speeds
- Durable Baked-on Gray Enamel Finish

Big enough for 9 out of 10 home shops—in size and features! Quality enough in every detail to make it look like a bargain at \$10 if you saw it on any counter! Any way you look at it, this Lathe will delight every home shop owner—and every man or boy who hopes to own a shop!

Wards Light Duty Lathe brings you features you never saw before in a lathe at this price:

Bigger Capacity. Full 27 inches between centers with 8-inch swing over the bed. And this lathe is sturdy enough to work at full capacity too, without vibration!

Heavier Weight. 21 lbs. net! That's because it's all heavy, first quality, well seasoned, gray cast iron. And that means it's rigid-much steadier and more solid than a stamped steel lathe can be. It's free from vibration and chatter, and it can't warp or spring out of line.

Ball Thrust Bearing. The sturdy head stock spindle runs in two big bearings, and against a ball thrust bearing, reducing the power required immensely and making for smooth, chatter-proof operation.

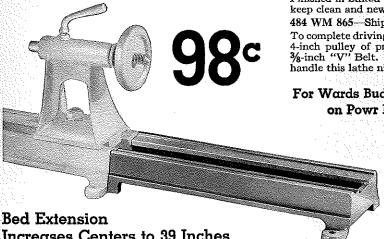
Then there are the perfectly machined ways—the 4-speed pulley—the carefully milled and fitted tail stock described below and at right. They are all features unusual in low priced lathes, and never before, to our knowledge, found all together in one lathe at this price.

All these features mean a rugged, sturdy, he-man's lathe that will really turn out a first class job and do it easily! For light duty in the home workshop it will perform as well as lathes costing several times as much.

Overall length, 39 in. Maximum width of base, 5 in. Maximum height, 8 in. 6-in. adjustable tool rest and holder, spur and cup centers, and wrench included. Finished in baked gray enamel—long-lasting, easy to keep clean and new.

To complete driving equipment order one 84 WM 9974 4-inch pulley of proper bore to fit your motor, and \(^3\)\sigma-inch "V" Belt. See Page 20. \(^1\)\delta H.P. motor will handle this lathe nicely; use \(^1\)\delta H.P. for faster work.

For Wards Budget Plan of Easy Payments on Powr Kraft Tools see Page 2



Increases Centers to 39 Inches

If you want to turn longer pieces, simply add this 12-inch extension to the above lathe and increase its capacity to 39 inches between centers! It's built of heavy gray cast iron of the same design as the lathe bed, with the same carefully machined ways. Its milled end fits perfectly with the end of the lathe bed and lines it up properly. Tail stock will slide freely over the joint. Finished in durable baked gray enamel to match the lathe. Mounting bolts included.

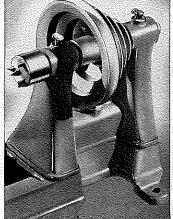
84 WM 867—Ship. wt. 4 lbs.......**98**c

Extra Sturdy Bed with Machined Ways

It won't spring or vibrate, because it's heavy cast iron—much heavier, and much sturdier, even than beds on many \$10 lathes! That's important because it means the centers will always line up exactly, even after years of head was of hard use.

The smoothly machined ways are important too, and almost unique at this price. They mean a perfectly flat, smooth bed top on which the tail stock and the tool rest slide easily—always with perfect alignment between centers.

The end of the bed is carefully squared, and so skillfully machined that you can add the extension to the left and find it a perfect fit!

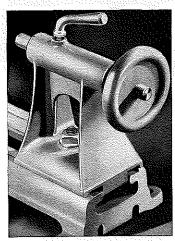


Heavy, Solid Head Stock

Big and husky! The heavy castings ac-commodate big smooth-running bearings — line the shaft up perfectly—while Thrust Ball Bearing eliminates wear and reduces the power required.

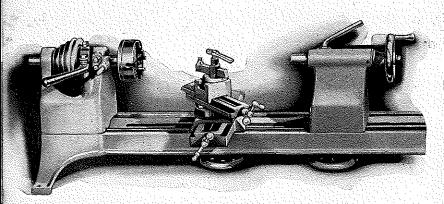
The 4-step pulley has plenty of clear-ace to be driven from above, behind, or below.

Dependable spur center is removable so you can use a face plate.



Screw Feed Tail Stock

Carefully milled bottom fits machined ways perfectly and slides easily, always maintaining perfect alignment between centers. Heavy flared base gives rigidity. Cup center, with hand wheel feed and positive locking lever.

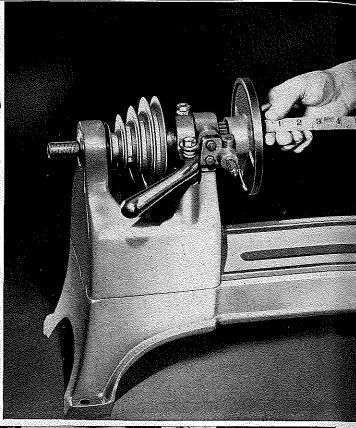


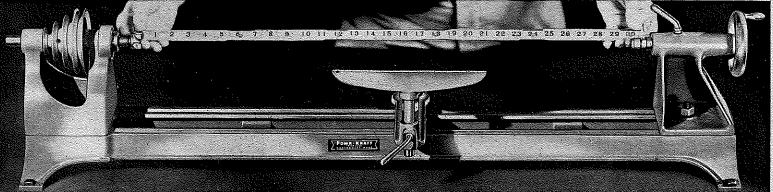
Both of These POWR-KRAFT Lathes Can Be Used for Metal Cutting

The extra weight and extra stamina of Wards POWR-KRAFT Heavy Duty Lathes fits them ideally for the tough task of metal cutting. In the picture above you see lathe fitted with the simple attachments which quickly convert them into efficient metal cutters. Both lathes on this page are designed for metal cutting by being built with hollow spindles to handle long rods. Note both flat and V-ways for precise and permanent alignment of compound rests, tail and head stocks. A feature usually found only on higher priced lathes. Metal cutting attachments are fully pictured and described on Page 14.

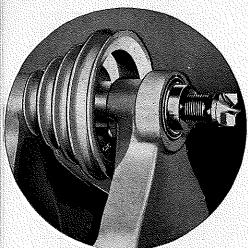
Every garage and small shop today needs one of these lathes for turning commutators and similar metal-turning jobs—and the lack of this facility in the home work shop simply limits the amount of work.

EASY PAYMENTS You Don't Have to Wait Until You Have the Full Price \$3 Down Buys a \$20 Order—See Page 2





Wards HEAVY DUTY Powr-Kraft Lathe EVERY CASTING OVERSIZE—SWINGS FULL 10-INCH STOCK



Precision Headstock

Heavy %-in, spindle, which runs on large oilless bearings, is hollow with %-in, hole, and fitted with No. 1 Morse Taper. Ball thrust bearing, 4-speed Pulley. Spur center included. Spindle projects at left for outboard turning; use any face plate with %-in, unthreaded hole.

- Actual Net Uncrated Weight—43 Pounds
- Machined Gray Cast Iron Throughout
- 30-inch Capacity Between Centers
- Ball Thrust Bearing Reduces Friction
- Has both V and Flat Ways for Precision
- Hollow Spindle with No. I Morse Toper

\$1295

EASY PAYMENTS
See Page 2

If you want your shop equipped with an all purpose Lathe that has the features, the ability and the capacity to tackle the toughest jobs—and if you want all these things for no more than the price of an ordinary lathe—Buy Wards Heavy Duty POWR-KRAFT. It's the lathe you've been looking for—It will save you \$8 to \$10.

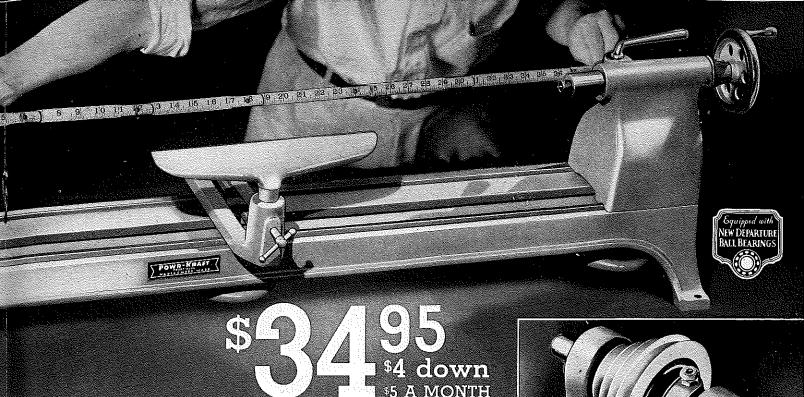
It has the weight, the stamina and the precision of a high priced lathe, giving rigidity and true performance at all speeds. It weighs full 43 pounds uncrated—giving it the needed rigidity that is so important for precision work. All castings are of Wards select quality, heavy, seasoned gray iron; expensively planed and milled before finishing.

Note particularly that this lathe has one "V" way and one flat way—instead of the usual inexpensive two flat ways—both so accurately

planed that the tail stock (or metal cutting compound rest) ride smoothly and always precisely aligned—particularly important on metal work. Extra width base provides a firm footing on bench, and yet is raised to allow easy removal-of chips.

Tail Stock spindle is operated by hand wheel and is equipped with No. 1 Morse Taper. Centers are self-adjusting. Maximum height 10½ in. Overall length 47 in. Our price includes spur and cup centers, tool rest holder and 12-in. tool rest. Finished in durable baked-on gray enamel. Ship. wt. 58 lbs. For Estimated Freight Charges See Page 2.

Order 84 WM 9974 4 step "V" Pulley of proper bore to fit your motor, and ½-in. "V"-Belt of proper length, from Page 20.



Wards Powr-Kraft EXTRA HEAVY DUTY Commercial Type Lathe PRICED FOR THE HOME WORKSHOP

- A Big Brute—109 lbs. net—for Severest Service
- Oversize in Every Way—Swings 13-inch Stock Over Bed
- Full 36-inch Capacity Between Centers
- Only \$4 Down Puts This Fine Machine in Your Shop—See Page 2

It's the last word in woodworking machinery! Here's a big, husky, oversize Lathe that has all the stamina, improvements and fine precision to give genuine pleasure to the handy man who prides himself in the ownership of only the finest tools. Price alone should make it your first choice over any ordinary home shop lathe. Professional in its specifications—its construction makes it entirely suitable for commercial work—and certainly adequate for the most ambitious job any home shop owner would undertake.

Just picture yourself in place of the man in the above photograph. See by actual comparison how its length measures up with your arm spread—the massive bulk of its beautifully balanced bed-the head and tail stock which dwarf the size of an average man's hand. And when you uncrate it, you will find it even bigger, finer, huskier than you expected.

Vibrationless Performance

From soft wood to hard metal Wards Extra Heavy Duty Lathe turns them all with surprising ease, exceptional quiet, and absolute smoothness, because it's backed by weight and quality. The extra grade of gray iron castings used eliminates all possibility of warping and promises permanently true alignment of centers. 109 lbs. of weight give astounding quietness.

Improved Extra Large Bed

Look at the close-up picture of tail stock at right again, and see the improved ways. One large "V" way and one flat way—both carefully planed—to gether with the precision construction throughout permit an accuracy of adjustment never achieved in a Home Shop Lathe before. Bed is 6 in. wide at top. Full 3½-inch legs allow you to clean out chips easily.

Precision Hollow Spindle

1-inch hollow spindle is ground to an accuracy of 1/5000-inch—that is POWR-KRAFT Precision. It

runs smoothly on heavy New Departure Scaled Ball Bearings. Threaded at both ends. Will accommodate 16-inch rod. Steel spring ratchet locking device for fluting, shown above at right, is far superior to the usual lathes with holes punched in a soft pulley and their insecure pin lock fastenings.

Other Outstanding Features

Complete with 4-speed pulley, which operates with motor above, behind or below lathe; 3½-in. face plate; tool holder; 12-in. tool rest; 56-in. V-belt; spur and cup centers. Finished in durable baked-on gray enamel. Overall length 54½ in. Maximum height 14½ in. Ship. wt. 141 lbs. Estimated Freight Charges

184 WM 658—Cash Price.....

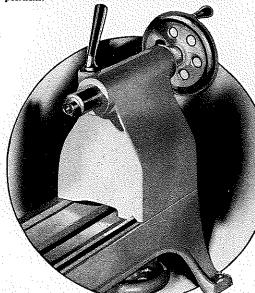
84 WM 9989—4-step Motor Pulley to match lathe pulley. State ½,5% or ¾ in. bore. Ship. wt. 2 lbs. 75c

484 WM 657—Pair of Pillar Blocks to increase swing from 13 to 21 in., also larger \$675 tool rest holder. Ship. wt. 17 lbs........

Exclusive! Instant Clutch-In-Head Control

Quick, positive control at your finger tips. A mere flip of the nickel plated throw-out lever disengages motor instantly—Starts and stops lathe without touching the

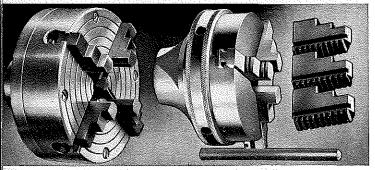
Improved ratchet device gives you better fluting re-dts, because it locks securely in any of 16 different



Precision Action Tail Stock

No more wrench fussing! POWR-KRAFT has 5-inch hand wheels under bed to lock tail stock and tool rest securely. Large hand wheel gives micrometer adjustment on spindle. Full 3½-in. quill movement locks firmly by lever. Centers are self-ejecting.

Precision Built Lathe Accessories



4-jaw Chucks

Substantially and accurately built with hardened steel reversible jaws. Each jaw works independently. 4-in. capacity. works independently. 4-in. capacity. Wrench and back plate included. Ship. wt. each 7 lbs.

84 WM 8802—Fits No. 84 WM 658 Extra Heavy Duty Lathe (Page 13) or any lathe with 1-in, spindle, 16 threads per inch. \$4.95 84 WM 8803—Fits No. 84 WM 868 Heavy Duty Lathe (Page 12) or any lathe with 3/4-in. spindle, 16 threads per \$4.95 inch.

3-iaw Automatic Chuck

S-jaw Automatte Chuck
A carefully machined precision tool
with 3-inch capacity. Three hardened steel jaws work simultaneously to grip work firmly.
Fits No. 84 WM 658 Extra
Heavy Duty Lathe (shown on Page
13) or any lathe with 1-inch spindle, 16 threads per inch.
Key and extra set of jaws included as shown. Shipping weight
6 pounds.

84 WM 8804-

Compound Rest For Metal Turning

A heavy, substantial Tool Rest built with the greatest precision. You know it's husky because it weighs 19½ lbs. net—which means it will handle the toughest metal turning job you will want to tackle. Swivel base graduated in degrees, and both longitudinal and transverse feed handles calibrated in thousandths of an inch. That's why you get micrometer accuracy in your fineeter accuracy in your fin-ished work—each turn of either handle equals only ½0-in of travel. This is easily read on micrometer gauges at the handles. Longitudinal feed (same direction as bed) is 6½ in.; transverse feed (across bed) 7 in. All ways carefully machined to 60°, and gibbed for take-up, Tool holder included. Ship. wt. 24 lbs.

84 WM 8800 Rest for Number 84 WM 658 Extra Heavy Duty Lathe. \$14.95 84 WM 8801—Rest for Number 84 WM 868 Heavy Duty Lathe.....\$14.95





Cast Iron Tool Rests

Top accurately ground and straight. Post will fit holders listed at right.

84 WM 8840—For any tool rest holder with 1-in, hole. State size.

4-in, size. Ship, wt. 2 lbs.

12-in, size. Ship, wt. 3 lbs.

31.00

24-in, double post. Ship, wt. 7 lbs.

1.95

84 WM 8841—18-in., double post for holders with 3/4-in. hole. Ship, wt. 5 lbs. \$1.50

Cast Iron Tool Rest Holders

Accurately machined to fit lathe bed. 84 WM 8835 Complete with 5-in. hand wheel and bolt. Accurately bored hole for tool rest post is 1 in. in diameter. Fits 84WM658 Lathe. Ship.wt.9 lbs.\$1.45

Cup Centers

Accurately ground bardened steel. Ship. wt. 8 oz. 84 WM 8816— With No. 2 Morse Taper Shank..69c

84 WM 8817— With No. 1 Morse Taper Shank...65c

60° Centers

Hardened steel, ground to fit. Ship. wt. 8 oz.

84 WM 8812— With No. 2 Morse Taper Shank...69c 84 WM 8813— With No. 1 Morse Taper Shank...65c

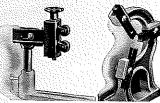
Screw Centers

Accurate taper, removable screw. Ship. wt. 8 oz.

Spur Centers

Fine quality hard-ened steel. Ship. wt. 8 oz.

84 WM 8814— With No. 2 Morse Taper Shank...69c 84 WM 8815---With No. 1 Morse Taper Shank...65c



New Back Rest

Mounts behind when turning long pieces. Rollers adjusted as work progresses. Fits tool rest holder with 1-in. hole. Ship. wt. 4 lbs.

84WM8846 \$3.45



Adjustable for work up to 21/2 in. diam. Ship. mt. 6 lbs. 84 WM 8844— For 84 WM 658 Lathe....\$2.25 For 84 WM 868 Lathe....\$2.25

Face Plates

Ship. wts. 3 and 2 lbs. 84 WM 8830—6-in. diam. For84WM658 Lathe\$1.50 Forstw M658 Lathe \$1.50 84 WM 8831.—3½-in. For 84 WM 868 Lathe. \$1.25 84WM8832—6-in.dia. For ¾-in. unthreaded spindle. \$1.00 84 WM 8833—3½-in. diam. For ½-in. un-threaded spindle.....75c

Lathe Dog

Drop forged from highest quality bar steel, insur-ing required strength and toughness. Ship, wt. 8 oz. 84 WM 8811-3/4-in. size.45c

Center for

Jacobs Chuck Heat treated steel. Fits Jasteel. Fits Ja-cobs Chuck on POWR-KRAFT Drill Press. Ship. wt, 8 oz, 84 WM 8822-

No. 2 Morse Ta-per Shank....69c

Chuck Centers

Equipped with ½-in. chuck shown on Page 19. Ship. weight 1 lb. 8 oz.

84 WM 8820 No. 2 Morse\$1.25 84 WM 8821— No. 1 Morse\$1.25



High Speed Tool Bits

Tis the "Super-Dreadnaught" high speed tool steel that makes these first quality bits exceptionally tough and durable. They're ground, ready for useand heat treated to hold a keen cutting edge. The complete set of six bits consists of round nose turning tool, right and left hand turning tool, right and left hand facing tool, and threading tool. Fit tool holder of compound rests above. Ship, wt. per set, 1 lb. 84 WM 8809—Set of 6.....





Same Chisels as listed at right. Set consists of ¼-in. and ½-in. skew, ½ by ½-in. parting tool, ½-in. and ¾-in. gouge. Complete in durable canvas roll.

Wood Turning Chisel Set

84 WM 723-Ship. wt. 3 lbs. Set of 5...\$3.29

Medium Grit Slip Stone

Keep your gouges in best-cutting condition. Cuts rap-idly and gives a smooth keen to your tools. Length

4½ in. 84 WM 2427— Ship-ping weight 8 ounces. **39c**

Wards Powr-Kraft Crucible Steel Chisels

Chisels that stay sharp! Only highest quality crucible steel, correctly tempered these tools sell for at least twice what to hold a razor edge, is used in these professional chisels. They come to you sharpened to a hair-splitting edge, and man-sized polished hardwood handles 8 they are easily kept that way. That inches long. Ship. wt., each, 1 lb. means they will do finer, smoother work than is possible with easily dulled, carbon steel chisels usually sold for this

Under their manufacturer's own name, we ask. Blades are 4 inches long, fully polished, and ready for use. Fitted with

menter rembt war-fet ment exem, a vo.	
(A) 84 WM 722-%6 by 1/2-in. Parting Tool.	
(B) 84 WM 733—¼-in. Skew	59c
(C) 84 WM 720 — ½-in. Skew	65c
(D) 84 WM 732—1/2-in. Gouge	69c -
(E) 84 WM 721 — 3/4-in. Gouge	89c

Wards Powr-Kraft 10-Speed Utility BENCH DRILL

Here's where the home craftsman finds a real Drill Press-with weight, capacity and precision—at a mighty low price.

The facts tell you it's a quality job throughout and a pleasure to use. You might expect a light machine at this price—but not this one. It weighs, uncrated and without motor, 26 lbs. positive proof that it's a heavy machine! Sturdy cast iron throughout. Its accurately ground steel spindle runs on oilless bronze bearings.

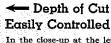
Excellent quality 3-jaw chuck of 1/2-inch capacity. Heavy cast table 8 inches in diameter, machine ground and slotted.

Height overall, 26 inches. Maximum distance center of drill to column 6 inches. Maximum distance chuck to table 73/4 inches. Finished to match other Powr-Kraft tools in durable baked gray enamel.

A 1/4 H.P. motor is suitable for all ordinary work but we recommend a 1/3 H.P. motor for maximum utility. See motors on

184 WM 878—Drill Press only, without motor. Shipping weight 35 pounds.....\$9.95

Besides motor you will need an 84 WM 9974 4-step pulley to fit motor, and 84 WM 9964 39-in. "V" belt. See Page 20.



In the close-up at the left you will see that the depth of your cut is indicated on the quill by fractions of an inch. The spindle travels 3½ inches up and down. Note the heavy chuck and positive lock for holding quill securely at desired positive.

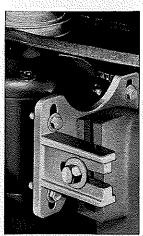
Ten Speeds Available —

Can you get that on any other drill at this price? Look into it. The 4-speed pulley on the head together with the 4-step pulley on the motor give you four direct speeds. Then, by moving the motor up or down, (see adjustment at right) a total of 10 speeds is available. See, also, how easy it is to adjust the belt tension.

Motor

CHECK THESE FEATURES

- Convenient Depth Gauge
- Takes up to 1/2-in. drills
- Heavy Gray Iron Castings
- Large Bronze Bearings
- 10 Speeds. "V"-Belt Drive
- Positive Acting Quill Lock



Built to do work in a busy shop

and stay on the job year in, year out. And if you're a clever home



Wards *Powr-Kraft* Shaper-Router-Carver DESIGNED ESPECIALLY FOR INDUSTRIAL USE

Cash Price \$7 down

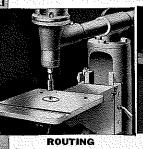
craftsman and appreciate a fine tool . . . here is something to give even a professional worker a thrill. Here's full 175 lbs. of massive castings and precision machined parts! A powerful motor that develops just about one full horsepower turns the spindle at 18,000 R.P.M.! That means that a cutter

with only 3 cutting edges makes 54,000 cuts per minute! It means that with this tool you can cut away the toughest of woods without even a suggestion of grabbing, chattering or gouging. No time wasted in shifting from routing to shaping or carving. Just a few simple levers . . . easy to get your hands on . . . a

quick turn here, there, and the work goes on.
The overall height is 4 feet 4 in. The head rotates both vertically and horizontally, and moves forward or backward 9 in. The frame is sturdy cast iron, as is the 11 by 14 in. table. Table has up and down movement of 9 inches on sturdy dovetail milled ways and moves up by the convenient foot lever. Limits are easily set. 9 in. from hole in table to column. Finished to match other Powr-Kraft tools in durable baked gray enamel. Universal motor is for 110 to 120 volt A.C. or D.C. Cutters are not included. Ship. wt. 210 lbs. Shipped Separately from Factory in Chicago. Estimated Freight Charges Page 2.

284 WM 734—Hi-Speed Woodworker......\$79.95

For Easy Payments see Page 2.



PPRE-REST

The high speed of this pro-fessional machine means quick clean work of highest sality in routing, inlay and



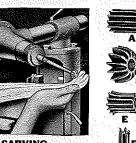
SHAPING

For shaping the only accessories needed are cutters and shaper guard, (See Pages 16 and 18). Adaptors for 1/6 and 1/2 in, bore cutters are included,



CARVING

The variety of carving work depends only on the skill of the operator. A cutter with 10 teeth makes 3000 cuts every second!



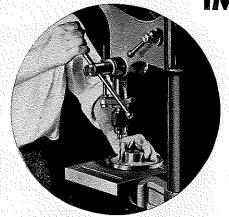
Carving

Cutters All highest grade of heat treated tool steel. Shipped Separately from Factory in Chicago. Ship. wt.

in Chicago. Ship. wt. cach, 4 oz. (A) 284 WM 689—Straight Face. \$3.95 (B) 284 WM 691—2.50 (C) 284 WM 690—Round Nose... 3.25 (D) 284 WM 693—Half Round... 3.50 (E) 284 WM 692—I Hook Tool... 3.95 (F) 284 WM 694—V₂ in. Drill... 3.95

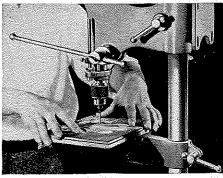
MONTGOMERY WARD 15

Wards Powr-Kraft IMPROVED TO DO



Drilling

Precision! On any drilling job in metal or wood. Drills to center of 14 in. circle (7 in. from center of drill to column).



Routing

So easy to do clean work when you have a choice of ten speeds and a positive depth stop that adjusts with micrometer accuracy. You can lower your cutter to the material and know to almost a hair just how much you are going to rout away.

BENCH MODEL

LESS MOTOR Only \$3 Down **\$4 A MONTH**

Equipped with Jacobs Key Chuck. No finer chuck made. Capacity up to 1/2 inch—ample for any job!

Quill. Machined from solid bar steel ground to accurate limits. Graduated for depth drilling.

Depth Stop. Adjusts for repeat work with micrometer accuracy. Pulleys. 4 step. 4 speeds directly, 6 more by moving motor up and down. Quick, convenient belt adjustment on motor mounting. Spindle. Accurately ground and perfectly aligned. Runs on three oilless bearings. Heavy 5/8 in. diameter. Quiet.

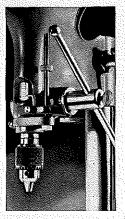
Ball Thrust Bearing. Greatly reduces power required to operate on any operation and not found on many drills.

A Massive Tool—Powerful—Versatile

Almost a machine shop in itself . . . does four separate jobs drills, mortises, shapes, routsand can be made to do an endless lot of other jobs. Its limits of utility depend only on the skill and ingenuity of the operator.

Big, weighty and strong . . . there's nothing about it that the toughest of daily production work can impair. When a shop owner puts this Drill Press to work he's adding a real profit maker, a speedy husky tool that can take it year in and year out.

With greater capacity, greater power, the most modern of accessories and refinements it saves the shopman, garageman and home craftsman a lot of money. Wards Powr-Kraft is designed to eliminate the need for extra spindles and other expensive gadgets. Our prices on the few accessories required are as moderate as on the drill press itself. Note that, without extra charge, we include the famous Jacobs chuck, standard on drilling machinery the world over.



Depth Gauge

Extremely important for clean accurate work is the depth gauge, especially for mortising or routing. It is graduated in 1/8ths of an inch.

inch.

A depth stop that adjusts with micrometer accuracy is provided. Position is quickly set by two nuts on the husky threaded stop rod.

Jacobs ½ in, chuck provided as standard equipment.

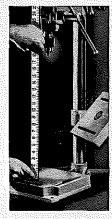


10 Speeds

Here's a close-up of the top of the headstock. Note the extra bearing above the pulleys . . . eliminates strain on spindle. Two more oilless

spindle. Two more oilless bearings are used on the spindle, besides a ball thrust-bearing.

The motor with its 4-step pulley is moved up and down by a convenient hand-screw, giving a total of 10 speeds from 625 to 5800 R.P.M.



Big Capacity

Big Capacity
Look at the capacity
of Wards Powr-Kraft
Bench Drill . . . 17
inches from chuck to
top of the base table!
Plenty of room to
handle a big variety of
work, especially odd
shaped material. The
heavy 8 by 8 in. cast
table tilts to 45 degrees
in either direction;
swings out of the way
quickly and easily when
desired.

Converts Easily and Quickly Into SPINDLE SHAPER

Invert the head stock with motor; put the adjustable table over the head stock. Then you have a highly efficient vertical spindle shaper. A high quality of work is done with ease, speed and accuracy. The only accessories you need to buy are shaper guard, shaper cutters and adaptor.

For extreme accuracy the heavy Powr Kraft shaper fence has a micrometer adjustment. By the turn of a ball-crank one face of the fence may be adjusted forward or backward and rigidly locked. See complete description on Page 18.

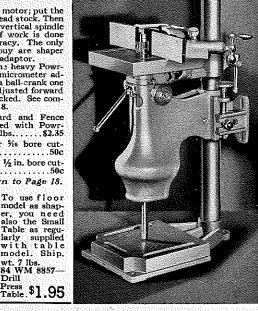
84 WM 8851—Shaper Guard and Fence

For Shaper Cutters turn to Page 18.

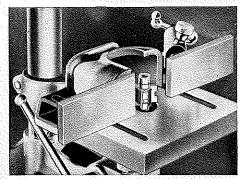




To use floor model as shaper, you need also the Small Table as regularly supplied with table model. Ship. wt. 7 lbs. 84 WM 8857-Drill



Heavy Duty Drill Press ALL JOBS BETTER!

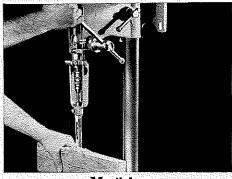


Shaping

Moldings and frames in a great variety of shapes are cut with ease. The shaper is made ready for work simply by inverting the head and attaching guard and adaptor. The sturdy fence is adjusted with micrometer

Here's what we mean by "heavy duty." Weight tells the story. The actual net uncrated weight (without motor) of the Bench Model is 68 lbs.; of the Floor Model 95 lbs. That enables you to visualize the massiveness, the sturdiness of the gray iron castings, and the steel columns.

These big models will drill to the center of a 14-inch circle with spindle movement $4\frac{1}{2}$ inches up and down. Precision work is assured. Here is capacity, accuracy, steadiness and long life sufficient to satisfy any need on any job no matter how exacting or how severe the service. Durable baked gray enamel finish.



Mortising

So easy to do on this new drill press. Remove regular chuck, attach mortising attachment with a hollow chisel and bit to the quill. Adjust your depth, throw on the motor and lower the chisel to the wood. A perfect mortise in a minute!

FLOOR MODEL LESS MOTOR Only \$3 Down \$5 A MONTH

Bench Model

An outstanding Drill Press, not only for the wide range of operations possible but also for the very unusual value represented.

Overall height with spindle down is 36 inches. The ground steel column is full 2-inch diameter, ample support for motor, drill head and table in any operation. Adjustable table, 8 by 8 inches, with ground top. The head mechanism is fully enclosed with heavy gray iron casting.

184 WM 666—Complete with Powr-Kraft Heavy Duty 1/3 H.P. Motor No. 484 WM 9811 for 110-120 volt 60-cycle A.C. as shown on Page 23. Ship. wt. 120 lbs.....\$34.70

184 WM 669—Less Motor, but with pulley and "V" belt, ready for motor. Ship. wt. 80 lbs. \$24.95

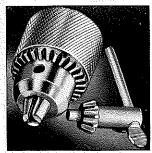
Floor Model

Enormous capacity . . . maximum distance from table to bottom of chuck 42 inches! Overall height with spindle down, 68 inches!

Extraordinary strength and stability . diameter of ground steel column full 3 inches! A heavy cast base 20 inches in diameter.

And this great floor-type press, is priced only \$5 higher than Wards bench model. Oversize table 11½ by 12½ in., ground and polished top. It is a heavy casting with trough for catching excess oil or cutting compound. 184 WM 670—Complete with Powr-Kraft Heavy Duty Motor No. 484 WM 9811 for 110-120 volt 60-cycle A.C. as shown on Page and "V" belt, ready for motor. Ship. wt. 125 lbs. \$29.95

For EASY PAYMENTS and Estimated Freight Charges See Page 2



The Igcobs Chuck

Recently improved to provide more rapid action, greater grip and longer life. Capacity 1/6 to 1/2 in. Fits any spindle 3/8 in. diam., 16 threads per inch. Included without extra charge with drill presses above, but may also be ordered separately. Ship. wt. 2 lbs. 8 oz.

4 WM 8850-Jacobs chuck......\$4.95





Hollow Chisels and Bits

It is easy to make close-fitting mortise joints with a Hollow Chisel and Bit. The bit, revolving within the hollow chisel, travels slightly ahead of the chisel and removes the wood. The chisel trims the edges square. Powr-Kraft chisels are special heat treated steel . . . hold their edges over long use. Bits are finest tool steel (not ordinary carbon steel). Ship. wt.: chisels, each, 8 oz.; bits, each, 4 oz. State ¼, ¾ or ½ in.

Article Number	Item	Each
84 WM 8860 84 WM 8861	Chisel only Bit only	\$1.19 1.25
	I	



Mortising Head and Chuck

This is the chisel holder which attaches to the quill and holds the hollow chisel and bit pictured above. The set consists of a gray iron Hollow Chisel Holder, small diameter Chuck and necessary Collet. Everything you need to go to work. Fits only Wardsbench and floor model drills listed on these two pages. Ship. wt. 4 lbs.

84 WM 8854— Mortising Head Set. \$1.95



Hold Downs

A big aid in mortising because they insure straight cutting and greatly simplify the mortising of long narrow stock. Ship. wt. 6 lbs. 84 WM 8855—\$1.50

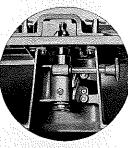


Table

Heavy gray iron casting with machine ground top, same as on floor model above. Size 11½ by 12½ in. Will fit bench model drill press. Ship. wt. 20 lbs. 84 WM 8856. \$4.95



Note the ballcrank which gives micrometer adiustment for raising and lowering spindle. Positive lock wheel locks spindle in posi-



Rear view showing the spindle assembly which is equipped with New Departure grease-sealed ball bearings. Note the husky construction throughout.



Ball-crank adjusts one side of fence converts shaper to jointer. A full turn of crank moves fence arm only. 1/24 inch-real micrometer accu-

Wards Powr-Kraft Heavy Duty Spindle Shaper A FINE PRECISION TOOL FOR HOME, SCHOOL OR SHOP

It's no trick at all-on this new and improved POWR-KRAFT Spindle Shaper—to change an ordinary project into a really professional job! With this tool anyone can turn out—easily and flawlessly—an endless variety of moldings, trims, edges and ends.

That's because Wards engineers went a step further in every detail of design. The new POWR-KRAFT has, for instance, more micrometer adjustments than any other shaper we've seen. Its table is machined smooth so that every piece of material rides across it with perfect accuracy. And, running at our recommended speed of 7500 R.P.M., it makes 22,500 cuts per minute—insuring the smoothest finish, free of ripples, roughness and cupping! And as for capacity, precision and strengthjust look! This tool weighs 31 lbs. net-because it's all heavy, seasoned

gray iron castings. That's one reason for its smooth, quiet, vibrationless performance! A complete turn of the ball-crank raises or lowers the spin-dle only $\frac{1}{2}$ in.—real precision! The front guide face has a micrometer adjustment for depth of cut; equally as delicate, yet positively locked just where you want it. And these fine adjustments are easy to makeall controlled by handy ball-cranks!

Vibrationless spindle is mounted on New Departure ball bearings—and takes cutters of 1/6 or 1/2-in. bore. Change from one to the other in a minute! Heavy gray iron table is 11 by 14 in., 81/4 in. high. Finished in durable, baked-on gray enamel. Recommended speed 6000-7500 R.P.M. Furnished with 2-in. "V" pulley. Use ½-H.P. motor for maximum efficiency. (See Page 23.)

84 WM 680

16-INCH

Max.. Diam. .95 in.

.95 in. .95 in. .95 in.

Max. Diam.

THICKNES

84 WM 8876

Made of tough Chrome Vanadium tool steel—carefully tempered, so that the keen edges of the cutting blades stay sharp much longer than ordinary cutters—tough enough to stand lots of re-sharpening. Cutters are matched to fit each other, and can be combined to make hundreds of different designs. Use on any Shaper or Drill Press taking %i-in. bore cutters. "Thickness" below indicates width of cut made by cutter, Ship. wt. each 2 oz. Order by Article Number.

THICKNESS

State Type

Each



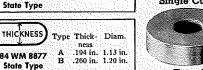
Type Thick- Diam.

ness .282 in. 1.18 in.

.344 in. 1.24 in.



Three Cuiters Combined for Single Cut



Depth Washers Assorted diameters to regulate depth of cut. Ship. wt. 8 oz. 84WM8880 50c Set of 6....50c

THICKNESS Type Thick- Diam. .282 in. 1.21 in.



Depth Washers Assorted di-ameters. Ship. ameters. wt. 8 oz. 84WM685-Set of 6....50C



84 WM 685

84 WM 8879-Same as above, except 1-in, thick, 11/4-in, diam. Each Type Thick-THICKNESS ness .221 in. A B THICKNESS 4 WM 8871 .442 in. 1.03 in.

Thick- Max.

.95 in.

.95 in.

.95 in.

ness

.264 in. .354 in. .442 in.

Type Thick- Max. HICKNESS ness Diam. .303 in. 1.09 in. 4 WM 8872 .388 in. 1.16 in. State Type

Type Thick- Diam. ness .177 in. 1.02 in. THICKNESS B C D .264 in. 1.06 in. .354 in. 1.09 in. 84 WM 8875 State Type .442 in. 1.13 in.

Thick-

ness .442 in.

Type Thick-

ness .125 in.

.156 in. .187 in. .250 in.

With this complete set, which includes all of the cutters listed above, you can turn out an almost unfinited variety of designs. You save \$2.42 by buying the complete set. Set of 6 depth washers included. In wood box 84 WM 8882—Ship. wt. 2 lbs. 8 oz. Complete set. \$9.98 Set of 24 Cutters--Save \$2.42

Set of 7 Cutters

Same quality Chrome Vanadium tool steel as above. Set of 7 most frequently used cutters to provide fifty to sixty designs. Set of 6 depth washers included, 84 WM 8881 Ship, wt. 1 lb

4 WM 8870

State Type



racy.

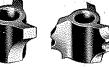
1/2-inch Bore Cutters

Same high quality construction as cutters at left. Use on any shaper fitted for ½-in. bore cutters. All cutters listed below have 1¾-in. maximum diameter and make cut 1 in. wide, Shipping weight each 10 ounces. Order by Article Number.





84 WM 677





Wards Powr-Kraft **ELECTRIC GRINDERS**

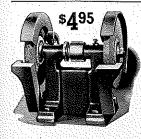
Fully Enclosed Dust-proof Motor 1/3 Horsepower

A Grinder with plenty of power and weight for heavy continuous service in the garage or workshop. Handles all types of bench grinding, tool sharpening, wire wheel brushing and rag buffing. The big, husky, fully enclosed motor is sealed

against grit, grindings and dust—which means longer life and trouble-free service. Won't overheat—develops full rated horse power. Rotat-ing parts are precision balanced for vibrationless performance whether idling or under load. Heavy, oil-packed bronze bearings assure cooler, smoother operation and lower current consumption.

Adjustable tool rests are mounted on one-piece, adjustable wheel guards. Furnished complete with motor, toggle switch in base, two Carborundum vitrified grinding wheels—one coarse, one fine—and threeconductor cord with plug. For 110 to 120-volt, 60-cycle A.C. only.

1 1		** = 1, = 1, -(1, -1)			· · · · · · · · · · · · · · · · · · ·
Article No.	H.P.		Size Wheels		Each
484 WM 6703	1/3	3600	6 by ½ in. 8 by ¾ in.	49 lbs.	\$19.45
484 WM 6704	1/2	1800	8 by 3/4 in.	64 lbs.	22.45



Wards Powr-Kraft Bench Grinder

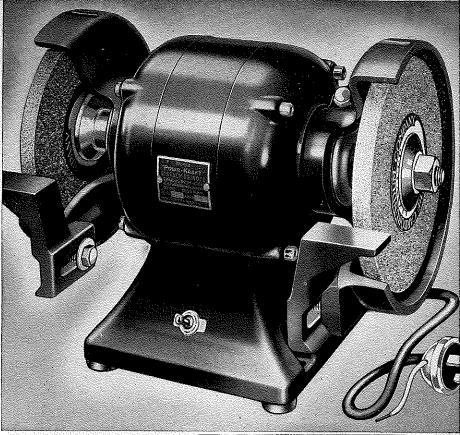
- Oilless Bronze Bearings
- 2 Six-In. Grinding Wheels

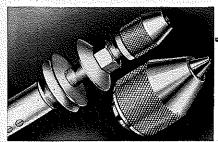
A heavy duty tool for production work. 6 by 5-in. base. Adjustable tool rests and guards. Shaft 8 inches by 1/2 inch.

by ½ inch.
Diam pulley 1¾ in. Face 1¾ in., grooved for "V," round or flat belt, 2 carborundum wheels ½ in. by 6 in.; 1 fine, 1 coarse grain. Shipping weight 20 pounds.

484 WM 6723.

\$4.95





Motor Arbors

Complete with chucks Complete with chucks described at right. Flanges hold wheels with ½-in. holes. For motors with ½-in. shafts. Ship. wts. 1 lb. 8 oz. and 1 lb. 4 oz.

84 WM 9976—½-inch capacity ...\$1.00 84 WM 9977— ½-in. capacity ...**75c**

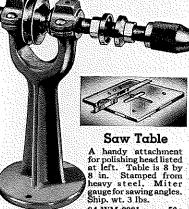
Three-Jaw Chucks

Heat-treated chucks, threaded for ½-in. spindle having 24 threads per inch. 84WM8890—Statesize.

Size	Ship. Wt.	Each
1/2 in.	10 oz.	50c
1/4 in.	бoz.	25c



pounds. 84 WM 9980 98c Complete... 98c



84 WM 9981.....50c



Handy Utility Kit

Your shop isn't complete without one of these handy outfits. You'll find it useful for grinding, polishing, buffing, sawing, etc. Pieces fit polishing heads, motor arbor or flexible shaft. Set consists of saw, grinding wheel, scratch wheel, cloth buffer—all 4 inches in diameter with ½-in, hole—and cake of polishing compound. Every piece is American made of high quality materials—not cheap imported merchandise.

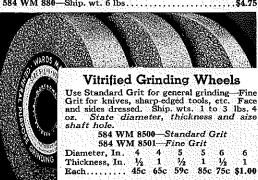
84 WM 9982—Shipping weight 3 pounds......\$1.25

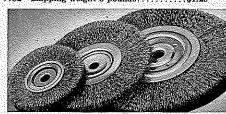


Flexible Shaft—Couples to Motor or Line Shaft

Transmits power to those "hard-to-get-at" places—it can be turned around corners and operated at any angle. Handy for drilling, sanding, grinding and polishing jobs. Fits any $\frac{1}{2}$ -in. shaft. Handy grip handle makes it easy to hold tool in proper position. No exposed moving parts at motor end.







Steel Wire Scratch Wheels 84 WM 6744—Fine 184 WM 6743—Coarse

Dism. Bore Ship.Wt Ea. Dism. Bore Ship.Wt Ea.
4 in. 1/2 in. 6 oz. 39c 4 in. 1/2 in. 6 oz. 29c
6 in. 1/2 in. 10 oz. 45c 6 in. 1/2 in. 10 oz. 39c
8 in. 4/5 in. 11b.4 oz. 49c



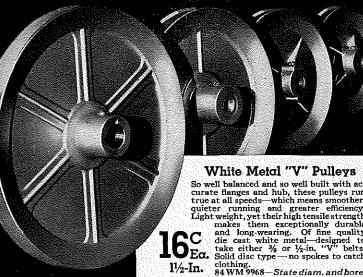
Cloth Buffing Wheels

Consist of 18 layers of bleached muslin, securely sewed together. 1/2 inch hole.

sewed together. ½-inch hole.

84 WM 6742—State diameter. 12c 19c 29c 39c 49c

MONTGOMERY WARD 19

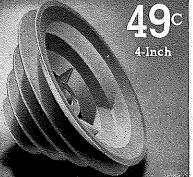


Pressed Steel Pulleys

Accurately balanced to run true at all speeds. Take either ½ or ½ in. "V" belts. Choice of ½, 5%, ¾, ½, ½%, 1, 1½, g or 1½, in. bore. State dia. and bore. Shipped from Factory near Cincinnati, Ohio.

284 WM 9999
Diam. In. . . . 15 18
Ship. wt. lbs. . 9 12
Each \$2.89 \$3.69

			100
		7	
		renovedi primari	a in a green
K 7	White Me	tal "V" Pu	lleys
/ / s	o well balanced		
. / c	urate flanges an	d hub, these pu	llevs rui
/ t	rue at all speeds- uieter running	—which means s	moother
g q	ight weight, yet	and greater e	enciency
		n exceptionally	
" —			
-	A STICT TOTE-M	earing. Of fine	։ Վատու
IC	die cast w	hite metal—des	igned to
16	die cast with take either	hite metal—des	igned to V" belts
16E	die cast wi take either O. Solid disc ty clothing.	hite metal—des 3% or ½-in, "1 pe — no spokes	igned to V" belts to catel
-/2	die cast witake either Co. Solid disc ty clothing. 84 WM 9968	hite metal—des 3/8 or 1/2-in, "1/7pe—no spokes —State diam, a	igned to V" belts to catcl and bore
Diam.	die cast witake either Co. Solid disc ty clothing. 84 WM 9968	hite metal—des 3/6 or ½-in, "0 7pe—no spokes —State diam, a Ship, Wt.	igned to V" belts to catcl and bore Price
Diam. 1¼-in.	die cast witake either Solid disc to clothing. 1. 84 WM 9968 Bore, In.	hite metal—des 3/8 or 1/2-in, "1/2-in,	igned to V" belts to catel indbore Price 16c
Diam. 11/4-in. 11/2-in.	die cast wittake either Solid disc ty clothing. 84 WM 9968 Bore, In.	hite metal—des 3/8 or 1/2-in, 10/2 pe — no spokes — State diam, 2 Ship, Wt. 4 oz. 4 oz. 4 oz.	igned to V' belts to catcl and bore Price 16c 16c
Diam. 1½-in. 1½-in. 1¾-in. 1¾-in.	die cast witake either take either Solid disc ty clothing. 84 WM 9968 Bore, In. 1/2, 5/8 1/2, 5/8	hite metal—des % or ½-in, "1 ppe—no spokes —State diam, a Ship, Wt, 4 oz, 4 oz, 5 oz,	igned to V" belts to catcle and bore Price 16c 19c
Diam. 1 1/4-in. 1 1/2-in. 1 3/4-in. 2 -in.	die cast witake either Co. Solid disc ty clothing. Co. 84 WM 9968 Bore, In. 1/2 1/2 1/2 1/2 1/2 1/2 1/3 1/4 1/2 1/4 1/5 1/8 1/4 1/8 1/8	hite metal—des % or ½-in, "1 ppe—no spokes —State diam, a Ship, Wt, 4 oz, 4 oz, 5 oz, 6 oz,	igned to vivible to catch and bore life life life life life life life lif
Diam. 1 1/4-in. 1 1/2-in. 1 3/4-in. 2 -in. 2 1/4-in.	die cast w. take either Clothing. 1. 84 WM 9968 Bore, In. 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8	hite metal—des 1/2 or 1/2-in, "1" - pre — no spokes - State diam, & Ship, Wt. 4 oz. 4 oz. 5 oz. 6 oz. 8 oz.	igned to v" belts to catch and bore liec liec liec liec liec liec liec lie
Diam. 1 1/4-in. 1 1/2-in. 1 3/4-in. 2 -in.	die cast w. take either Clothing. 1. 84 WM 9968 Bore, In. 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8	hite metal—des % or ½-in, "1 ppe—no spokes —State diam, a Ship, Wt, 4 oz, 4 oz, 5 oz, 6 oz,	igned to vivible to catch and bore life life life life life life life lif
Diam. 1½-in. 1½-in. 1¾-in. 2 in. 2¼-in. 2½-in.	die cast w. take either Cl. Solid disc ty clothing. 84 WM 9968 Bore, In. 1/2 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8, 3/4 1/2, 5/8, 3/4 1/2, 5/8, 3/4 1/2, 5/8, 3/4	hite metal—des % or ½-in, " pe—no spokes — State diam; s Ship. Wt. 4 oz. 4 oz. 5 oz. 6 oz. 8 oz. 8 oz.	igned to vive belts to catcle and bore life life life life life life life lif
Diam. 1 1/4-in. 1 1/2-in. 1 3/4-in. 2 -in. 2 1/4-in. 2 1/2-in. 3 -in.	die cast w. take either CL. Solid disc ty clothing. Sulw 1968 Bore, In. 1/2, 5/4 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8, 3/4 1/2, 5/8, 3/4 1/2, 5/8, 3/4	hite metal—des % or ½-in, " pe—no spokes — State diam; s Ship. Wt. 4 oz. 5 oz. 6 oz. 8 oz. 10 oz. 11 ib.	igned to to be to catcle to catcle Price 16c 19c 20c 25c 25c 45c 45c
Diam. 1 1/4-in. 1 1/2-in. 1 3/2-in. 2 1/4-in. 2 1/2-in. 3 in. 4 in. 5 in. 6 1/2-in.	die cast with take either Cl. Solid disc ty clothing. Bore, In. 1/2. 5/8 1/2. 5/8 1/2. 5/8 1/2. 5/8 1/2. 5/8 1/2. 5/8 1/2. 5/8 3/4 1/2. 5/8.	nite metal—des % or ½-in, "" ppe—no spokes Ship. Wt. 4 oz. 5 oz. 6 oz. 8 oz. 10 oz. 1 lb. 1 lb. 12 oz.	igned tv" belts to catcle and bore life. 16c. 16c. 19c. 20c. 20c. 25c. 39c. 45c. 69c.
Diam. 1 ¼-in. 1 ¼-in. 1 ¼-in. 2 ¼-in. 2 ¼-in. 3 in. 4 -in. 5 -in. 6 ½-in. 8 -in.	die cast w. take either Cl. Solid disc ty clothing. 84 WM 9968 Bore, In. 1/2 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8 1/2, 5/8, 3/4	nite metal—des % or ½-in, "" ppe—no spokes — State diam, s Ship. Wt. 4 oz. 5 oz. 6 oz. 8 oz. 10 oz. 11 oz. 1 lb. 12 oz. 2 lbs. 4 oz.	igned to the catcle of the cat
Diam. 1 1/4-in. 1 1/2-in. 1 3/2-in. 2 1/4-in. 2 1/2-in. 3 in. 4 in. 5 in. 6 1/2-in.	die cast with take either Cl. Solid disc ty clothing. Bore, In. 1/2. 5/8 1/2. 5/8 1/2. 5/8 1/2. 5/8 1/2. 5/8 1/2. 5/8 1/2. 5/8 3/4 1/2. 5/8.	nite metal—des % or ½-in, "" ppe—no spokes Ship. Wt. 4 oz. 5 oz. 6 oz. 8 oz. 10 oz. 1 lb. 1 lb. 12 oz.	igned tv" belts to catcle and bore life. 16c. 16c. 19c. 20c. 20c. 25c. 39c. 45c. 69c.



4-Step "V" Pulleys

Change belt from one step to another and you change the speed of your machinel Wards 4-step die cast white metal "V" Pulleys are scientifically designed and carefully balanced to run true at all speeds—smoother performance and longer life! Take either 36 or 1/2-in. "V" belts. Choice of 1/2, 5/6 or 3/4-in, bore. State hore. belts. Choic

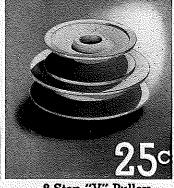
84 WM 9974-4-inch maximum diam-



Flat Face Metal Pulleys

Scientifically designed die-cast white metal pulleys, accurately balanced to run true at all speeds. High tensile strength. Ship. wts. 8 oz. to 1 lb. 8 oz. 284 WM 9969—State size and bore.

		1000
Size, In.	Bore, In.	Each
1 ½ by 1 ¾ 2 by 2 2 by 2 2 ½ by 2 ½ 3 by 3	1/2, 5/8 1/2, 5/8, 3/4 1/2, 5/8, 3/4 1/2, 5/8, 3/4	23c 25c 29c 49c

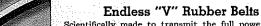


2-Step "V" Pulley

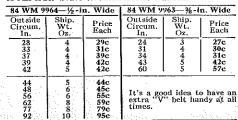
Perfectly balanced to run true at all speeds. Takes \% or \%-in. belt. Die cast white metal with high tensile strength. Diameters are 2 and 2 \%-in. State \%-2 or %-in. bore. 84 WM 9972—Ship. wt. 6 oz.......25c

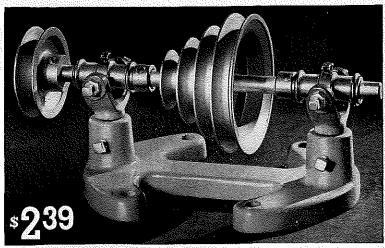


Flexible Couplings
Die-cast metal. Rubber cushions for flexibility. Ship. wt. 7 and 10 oz. 25°
84 WM 9970—½-inch bore...... 25°
84 WM 9971—¾-inch bore...... 37c



Scientifically made to transmit the full power of the motor to your machine. Core of heavy cord fabric provides great strength and holds stretch to a minimum. Rubber construction assures flexibility and prevents slippage. Overall is a tough fabric cover—and the whole is vulcanized into one continuous belt, correctly shaped. to run true. State circumference wanted.

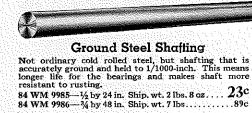




Convenient Jack Shaft for Quick Speed Changes

For increasing or reducing speeds. Especially suitable for increasing speeds of high speed tools such as Shapers, Drill Presses, etc. Equally useful for machines where extra slow speed is desirable. Rigid cast iron frame. Ground shaft runs in bronze bushed bearings, Die cast pulleys. One 2 ½-in, regular and one 4-in., 4-step pulley taking 3% or ½-in. V-belt. Adjustable up and down.

\$2.39



Round Leather Belting

Self-Aligning Hangers

Note the sturdy construction. Heavy bronze bushings are inserted in steel turnings and there's plenty of room for oil. State bore.



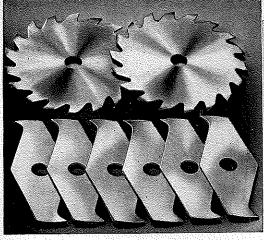
CONVENIENT TABLE OF SPEEDS

This handy table shows at a glance the approximate speed of the pulley on any machine, with different pulley sizes on the motor shaft. These are correct when belt is at proper tension, and are based on a motor speed of 1725 R.P.M.

Motor					Si	ze. Ir	. of I	Pulley	on l	Mach	ines				
Pulley			1%			2 1/2									18
11/4	1725	1435	1230	1075	950	860	715	540	430	330	265	215	175	140	115
11/2	2065														
134	2400 2775														
21/4	3100														
21/2	3450	2870	2460	2150	1900	1725	1435	1075	860	660	540	430	355	285	240
3	4140	3450	2950	2580	2290	2070	1725	1290	1070	800	615	515	430	345	285
4	5500 6850													460 575	
61/2	8950														
8			7870	4 4 5 4	27 7 6										
1Ŏ	::::	7200	9850	8620	7670	6900	5750	4300	3450	2650	2150	1725	1430	1140	950
12					9200	8280									
15 18					• • •, •				5170 6200						
10								1130	0200	X1.1.V	3000	2100	4000	4010	1140]

Shaft Couplings and Collars

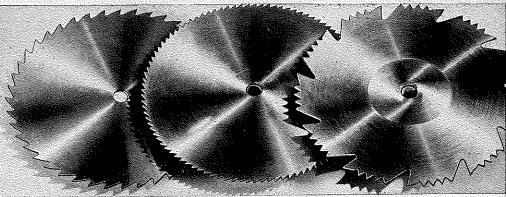
		-	_	~	 	
84 WM 9983	Rigid Coup	lings.				
1/2-in. bore.	Ship, wt. 3 oz				 19)c
3/4-in. bore.	Ship. wt. 6 oz.				 29	c
84 WM 9984	∟Shaft Colla	ITS.				
½-in, bore,	Ship, wt. 2 oz.				 9)c
%-in, bore,	Ship, wt. 3 oz, .				 . 15	c



Alloy Steel Dado Saws

For grooving, rabbeting, mortising and tenoning. Use on any bench saw having removable throat on table. Complete saw consists of two outside blades and six inside chippers—all \(\frac{1}{16}\); in. thick except 5-in. blades, which are \(\frac{3}{22}\)in. State diameter. (Available only in sizes listed).

	Article Number		Ship. Wt.	4-in. diam. ½-in. bore	5-in. diam. %-in. bore
84 WM	785—Complete 716—Blade only. 715—Chipper onl	y	1 lb. 6 oz. 2 oz.	\$2.25 69c 22c	\$3,50 95c 29c



Combination Rip 896 Circular 896 In.

We believe there are no better saws for fast, clean, smooth cutting Finest quality crucible alloy steel, with a cutting edge that stays sharp! Corrective tempered, hand filed, hammered and set for real balance and trueness—no binding or buckling. State diameter wanted.

84 WM 284-Combination Rip and Cross-Cut Saw. 84 WM 281—Circular Cross-Cut Saw.

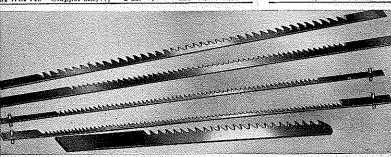
	11.11	and the second of the second	1,100 11 0	
Diam. In.	Gauge	Size Hole	Ship, Wt.	Each
6 7 8	18 18 18	½ in. ½ in. % in.	10 oz. 12 oz. 1 lb.	89c \$1,09 1.35

Hollow Ground \$225 in. Miter Saws

This type of saw cuts more slowly than saws at left, but leaves a smoother, finer edge. Finest quality crucible alloy steel, correctly tempered and balanced.

84 WM 283—State diameter.

iam. In.	Gauge	Size Hole	Ship. Wt.	Each
6 7 8	16-19 15-18 15-18	½ in. ½ in. ¾ in.	10 oz. 12 oz. 1 lb.	\$2.25 2.55 2.95
0	12-18	A8 111.	1 10.	2.93



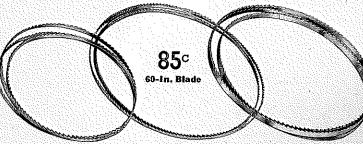
First Quality Jig Saw Blades

All blades 51/4 inches long, unless otherwise specified. Ship. wt. pkg. 4 oz.

PLAIN END BLADES

PIN END BLADES 84 WM 8774—010 inches thick, .040 in. wide, 20 teeth per inch. Package of 1229c 84 WM 8775—Assorted Sizes. Package of 12... .29c

SABER BLADES



First Quality Steel Band Saw Blades



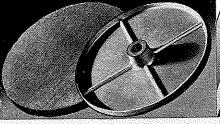
Abrasive Disc

A good abrasive disc is a handy accessory for any shop. This one is rubber bonded for fast, clean cutting of metals, stone, brick, tile, etc. It's 8 inches in diameter, ½2-in. thick, and has a ½-in. hole. Run at 5000-6000 R.P.M. Ship. wt 3 lbs. WE. 3 108. 84 WM 8901—Each......950

Routing and Mortising Cutters

Finest quality high speed steel cutters that bite right into the toughest kind of wood. Correctly tempered to hold their keen edges. Use them with drill presses and wood carvers for routing and mortising operations. Ship. wt. each 4 oz. 84 WM 641—State size wanted.

Size, In. ... ½ ½ ½ ½ ½ ½ % Each... 62c 62c 69c 75c 89c



Rubber Disc

Use this tough gray Sponge Rubber Pad between sanding disc (shown at right) and sheepskin buffer (on Page 19). 6-in. diam., 3/6-in. thick. Ship. wt. 4 oz.

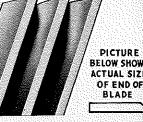
84WM718—Each 25c



Sanding Disc

Fine quality die-cast metal, carefully machined and balanced. Diam 6 in. State whether ½-in. threaded, or ½ or ¾ in. unthreaded bore is wanted. Ship. wt. each 7 oz.

84 WM 717—Each. 50c



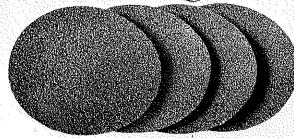
PICTURE

OF END OF BLADE

Planer Knives

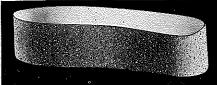
Made of finest quality tempered high speed steel—that's why they stay sharp much longer than ordinary carbon steel knives. For any Jointer taking 4-in. blades with same cross-section as shown above. Ship, wt. per set 1 lb.

84WM8900—Set of 3 \$1.95



Quality Sanding Disc Sheets

Use these discs of Sandpaper to give your work a smooth, flawless finish. Each disc is 6 inches in diameter, for use with metal sanding disc (shown above). Set of six consists of two each of coarse, medium and fine. Order a set today! Ship. wt. per set 4 oz. 25c 84 WM 719—Per Pkg. of 6...



Endless Sanding Belts

Endless Sanding Beits
Keep an assortment of these Sanding Belts on hand at all times—you'll use them often to give your work a smooth finish. Designed for use on Wards 'POWR-KRAFT' Adjustable Belt Sander (No. 484 WM 877, shown on Page 10), or on any other sander using 3 by 30-inch sanding belts. Sturdily made with tough fabric back—which means that they will last much longer than ordinary belts. State whether Coarse, Medium or Fine is wanted. Ship, wt. each 8 oz.

35c



Sanding Drum

This die-cast metal Sanding Drum attaches easily and quickly to flexible shaft, polishing head, etc. Makes a convenient sander for your shop. Diameter, 2½ in. Width, 3 in. Complete with rubber sleeve as shown. Ship. wt. 8 oz. 84 WM 704......75c

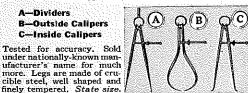
Drum Sandpaper

Excellent for smoothing rounded edges and surfaces. This heavy sanding band fits over the metal drum at left or any of same size. Use with flexible shaft, polishing head, etc. State Coarse, Medium or Fine. Ship. 84 WM 703—Each . 10c

MONTGOMERY WARD 21



Wards finest. Tempered Vanadium Wards innest. Tempered Vanadum steel!—the hardest, toughest steel made! Octagon neck, sure grip claws, tapered corrugated eye. Selected, straight grain, second growth hickory handle securely clinched with two corrugated wedges—head cannot work loose. Ship. wt, 2 lbs. 84 WM 1511—Size 1½; 16-oz. head.98c



uciy com	percu. De	are direct passes		COSCOCIONAMIA CON PAGA
Size	Ship.	84 WM 2614	84 WM 2613	84 WM 2612
	Wt.	Divider	Outside Caliner	Inside Caliper
4-in.	5 oz.	59c	59c	59c
6-in.	6 oz.	69c	69c	69c
8 in.	8 oz.	79c	79c	79c

0-10-11 Combination Square





Make Your Own Saw Horses, Benches, etc. with Wards Metal Joints

Use them for saw horses, benches, scaffolding, understaging or supports—there's dozens of places where they will save you time and lumber. Just cut your lumber square, the desired lengths and insert in Wards Metal Joints and your job is done. No beveling, jointing or nailing necessary. Lock-tight grippers prevent side sway, spreading or disjointing. No braces needed.

Easy to set up—easy to take down. Quickly and easily interchangeable with varying lengths of lumber to make any height or span. Made of malleable iron—will last a lifetime. Ship. wts. 5 and 11 lbs.

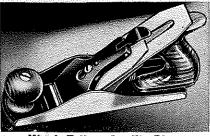
84 WM 8892—Size 1. For 1 by 3-in. lumber. Set of 4...\$1.79 84 WM 8893—Size 2. For 2 by 4-in. lumber. Set of 4... 2.98



Sandpaper 15c

84 WM 2401-Size 8% by 101/2 in.

State num	ber wanted.	<u> </u>
Number	Ship, Wt.	24 Sheets
00	1 lb. 1 lb. 4 oz.	15c 17c
1/2	1 lb. 8 oz.	20c
11/2	1 lb. 12 oz. 2 lbs.	22c 25c
2/2	2 lbs. 4 oz.	28c



Wards Eclipse Quality Plane

Every woodworker needs a good Plane. This one has a 1%-in. adjustable tool steet cutter—correctly tempered and ground. Sides and bottom are ground smooth. Hardwood handle and knob. Depth and levelling adjustments. Ship. wt 4 lbs. 84 WM 460—Smooth style 3; 9½ in long. 89c

69c

Adjustable Marking Gauges

Save time, are accurate and especially suitable for marking long material. Marked to 16ths. Ship. wt. ca. 8 oz., 6 oz.



Yellow. Marked to 16ths. Two sides, 84 WM 1840—State length.

Length, it... 4 5 6 8.
Ship. wt. oz... 5 6 7 8.
Each... 15c 18c 20c 29c
84 WM 1841—6-ft. White. Marked to 16ths. Ship. wt. 7 oz... 23c

Special Chisel Set



Style 110 Plane

A strong, husky Block Plane that comes in handy around the work-shop. You'll like the way it handles, 156-in, ad-justable steel cutter, Ground surfaces. Sides and bottom smooth and polished. Length 7 in. Ship. wt. 2 lbs.

84 WM 545......39c

General utility Oilers for workshop, farm or home. Double seamed spring steel bottom—reinforced spouts.

84 WM 7644—1/3 Pint. 3-inch straight spout. Ship. wt. 7 oz. 8c 84 WM 7645—1/2 Pint. 5-inch straight spout. Ship. wt. 8 oz.14c 84 WM 7646—1 Pint. 9-in. bent spout. Ship, wt. 10 oz..... 22c



Our Finest Woodworkers' Vise

Jaws open and close very quickly. Cast iron construc-tion with cold rolled steel screw and guides. Jaws 7 in. wile, open 8½ in. Black japannel finish. Ship. wt. 18 lbs. 18 lbs. 484 WM 6831.....\$4.45



Woodworkers' Vise

Instant locking. Fastens to anything % to 2 in thick. Steel rods. Maleable iron jaws 1½ by 5½ in., open to 3% in. Durable green finish. Ship. wt. 6 lbs. 484 WM 6833 \$1.75

Steel Bar Clamps

A quick action Clamp of simple and powerful design. Flat steel bar 1½ by ¼ in. notched to vary width opening. Ship. wts. 11 and 17 lbs. 484 WM 6910—State length. Length. 3 ft. 4 ft. Each. \$1.65 \$1.95 Pair. 3.10 3.65

Malleable Iron Clamps

Malleable from Clamps
Swivel head. Cold rolled steel screw with accurately cut threads. Ship, wts. 2 lbs. 4 oz., 3, 5 and 7 lbs. 84 WM 6900—State size. Opens In. 4 6 8 10 Depth In. 2 2½ 3¼ 4 Each... 30c 56c 75c \$1.10 Pair... 58c 98c \$1.40 2.10

Cabinet Clamp Powerful, quick-action clamp of heavy cast iron. Simple design. Fits wood bar 1% by 2½ in., any length.

Sliding head 1% in square. Steel screw with deep cut threads. Ship. wt. 4 lbs. 4 oz. 84 WM 6905......80c

Wing Dividers

Polished forged steel with carefully tempered points. Thumb screw and nut ad-justment for greater ac-

Wards Certified First Quality Varnish and Enamel



Wards Super Spar VARNISH

Wards Pure SHELLAC

Wards PENETRATING STAIN

Wards PENEL MALLING

Brings out all the rich color and natural beauty of wood. Resists fading action of light. One quart stains about 100 sq. ft. Use only for new woods.

Choice of 5 colors:

Walnut

7	Mahogany Dark Oak	Gol	den O	vainu ak	t	
	State article number and color.					
	75 WM 8131-1 Pint. Ship. wt. 1 lb.					
ij.	575 WM 8132—1 Quart, Ship. wt. 2	lbs. 12	OZ			53



Wards Dry Fast ENAMEL

Finest quality, high gloss Enamel. Permanent colors. Exceptional wear-resistance. Spreads easily and smoothly. Dries in 4 to 6 Lcurs. One quart covers 100-125 sq.ft. 1 coat. Choice of 14 brilliant colors: 700—White

726—Apple Green 708—French Gray 714—Jade Green 716—Golden Oak 715—Chocolate Brown 732—Medium Green 700—White 702—Black 704—Ivory 705—Cream 724—Orchid 728—Orange 712—Spanish Blue 710—Turquoise Blue State article number and color numbers.

Varnish Brush **Patching Wood**

30c

Carefully selected pure Chinese bristles vulcan-ized in rubber. For var-nish, enamel or lacquer. Ship. wts. 5 oz. and 6 oz. 75 WM 211—1% in.wide, 2% in. bristles......30c

75 WM 212—21/2 in wide, 21/2 in. bristles. 40c

Varnish Brush

Low priced! For varnish or ename!. Pure Chinese bristles. Ship wts. 4 oz., 4 oz., and 5 oz.

75 WM 671—1 in. wide, 21/8 in. bristles.....10c 75 WM 672—1½ in wide, 2¾6 in, bristles. . . . 15c 75 WM 673—2 in. wide, 21/4 in. bristles. . . . 19c

Liquid Glue

Finest liquid glue, 1¼ oz. size in tube, other sizes in cans.
75 WM 8588-1¼ oz. Ship. wt. 4 oz. 12c
75 WM 8589-4 oz. Ship. wt. 11 oz. 25c
75 WM 8590-½ pt. Ship. wt.11b.4 oz.39c

Casein Glue

A new strong, tough waterproof glue for making and repairing cabinets, fur-niture, musical instruments, radios, trunks, bags, etc. Easy to mix in cold

75 WM 1400—1½ oz. Ship. wt. 4 oz. 9c 75 WM 1401—4 oz. Ship. wt. 8 oz.. 23c

The Most Widely Used Motors in America

NOW SOLD BY WARDS TO SAVE YOU UP TO 1/3

75 ⅓ H. P. Heavy Duty Workshop Motor

• Full $\frac{1}{3}$ H.P. with plenty of overload capacity.

• New Departure ball bearings sealed in grease—no oiling or • High carbon steel double shaft, ½-in. diameter at pulley but larger through

motor for quiet operation. • Each motor dynamically and statically balanced, extra quiet and smooth.

Sturdy ON-OFF switch built for years of service.

Weighs 31 lbs. net—5 lbs. heavier than most similar motors.

Windings thoroughly impregnated—moisture-proof.

Rustproof internal starting switch—quiet, positive, dependable.

• Rustproof internal starting switch—quiet, positive, dependable.

Built to Wards rigid specifications, it has all the latest, up-to-date features that only the world's largest motor manufacturer can give it! That's why Wards POWR-KRAFT ½ H.P. Motor is so satisfactory for those tough jobs where ordinary motors will stall or burn out. Heavy duty split phase type, fitting it perfectly for light and heavy duty home workshop tools such as lathes, grinders, planers, drill presses and saws. Suitable also for all other machinery that requires plenty of power but does not start under load. Shaft is ½-in. at pulley but full \(\frac{1}{2}\)-in, at the bearings and even larger through the rotor—which means real quietness and smoothness of operation. New Departure ball bearings cut power costs by reducing watts required to operate. Lifetime internal starting switch tested 1,000,000 starts and stops without a miss—positive proof of its sturdy construction. Bakelite terminal block—motor easily reversed. Double shaft, 10-ft. rubber cord and plug. For 110-120-volt, 60 cycle A.C. only. Speed 1725 R.P.M. Ship. wt. 37 lbs. \$9.75



for quiet running—greater efficiency.
• Sealed lubrication—wool yarn filtered.

Rustproof internal starting switch.

Husky throughout—weighs over 25 lbs. net.

This powerful smooth running POWR-KRAFT Motor delivers full ¼ H.P. with large overload capacity. Very low wattage consumption. Ideal for light shop sumption. Ideal for light shop tools, washing machines and similar machines not starting under load. Every motor dynamically and statically balanced. Shaft is ½-inch at the pulley, but larger through bearings and rotor—assuring smooth quiet operation. Windings thoroughly impregnated. Automatic end - play adjustment. 1725 R. P. M. For 110-120-volt 60 cycle A.C. only. Ship.wt.30 lbs. 484 WM 9799—Less Cord. \$5.95 484 WM 9800 — As above but with 10-ft. cord. \$6.65

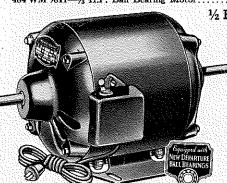
1/4 H.P. Direct Current Motor Like above, but equipped with famous New Departure Ball

Bearings, Cord and Plug.

484 WM 9805—32-volt. \$14.95

484 WM 9806—115-volt \$14.95

Direct Current \$14.95



Delivers full ½ H.P. at 3450 R.P.M.

 New Departure ball bearings for smooth, quiet operation—low wattage consumption.

High carbon steel double shaft, ½-in, at pulley—full 5/2-in, at bearings and through motor.

1/2 H.P. High Speed Motor

A heavy duty motor, de-signed especially for wood-working machines that re-quire high speeds, such as quire fign speeds, such as circular saws, shapers, etc. Holds speed of 3450 R.P.M. up to full ½ H.P. load, with liberal overload capacity. Never exceeds 3600 R.P.M. Suitable only for machines where load is applied after machine copies in the speed. where load is applied after machine comes up to speed. New Departure ball bearings, sealed in grease, reduce power required to operate—cut power costs. Windings thoroughly impregnated. Easily reversed. Complete with sturdy ON-OFF switch, 10 ft. where covered cond 10 ft. rubber covered cord and plug. For 110-120-volt, 60-Cycle A.C. only. Ship. wt. 40 lbs. 484 WM 9812....\$|5.95

Repulsion-Induction Motors Speed Up Production

Tremendous overload capacity—develop 3 times rated horsepower for short periods. That's why these motors speed up production on wood-working machinery and all types of industrial equipment.

• Wil not rise over 40 degrees Centigrade under full rated load.

Heavy duty bronze sleeve bearings—diamond bored for precision fit with shaft—which means smoother, quieter operation.

Sealed lubrication—enough oil in wells to last over a year.

Heavy duty motors for any heavy duty job! Four brushes permit motor to start on lower voltage. High carbon steel shaft is thicker at the bearing than at the pulley. This means smoother, quieter running—greater efficiency. Automatic end-play take-up. ¼ and ¼ H.P. sizes are extra quiet, brushlifting type—suitable for refrigerators as well as general purpose. Low starting current—connect direct to line. For speedy production work we recommend the use of a motor one size larger than is recommended for home workshops. Full load speed 1725 R.P.M. For Estimated Freight Rates, see Page 2.

SINGLE PHASE MOTORS

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Horse	Diam.	Ship.	Price
Power	Shaft	Wt.	
1/4	% in.	39 lbs.	\$12.90
	% in.	50 lbs.	17.50
	% in.	57 lbs.	19.95
	% in.	90 lbs.	28.95
1	% in,	109 lbs,	39.90
1½	1 in,	120 lbs,	49.90
2*	1 in.	155 lbs,	59.50

(11111<u>(1111)</u> (1)

THREE PHASE MOTORS

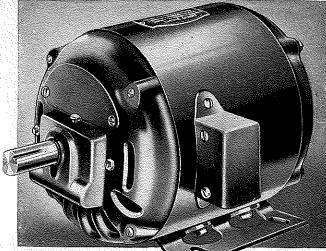
SINGLE PHASE MOTONS

184 WM 9821—Interchangeable for 110 or 220-volt, 60cycle A.C. First three sizes Mailable. All Sizes Shipped
from Stock. State H.P. wanted.

284 WM 9823—Be sure you have 3-phase current before
ordering. For 220 or 440 volt, 60-cycle A.C. State voltage. All Sizes Shipped from Factory in Dayton, Ohio, or
San Francisco, Calif. State H.P. wanted.

DOWN 1 I Braces	co, carp. oran	JELE , WGINGGE	
Horse	Diam.	Ship.	Price
Power	Shaft	Wt.	
34 1 1/2	% in. % in. % in. 1 in.	47 lbs. 81 lbs. 83 lbs. 86 lbs.	\$ 31.95 34.95 37.95 42.95
2	1 in.	160 lbs.	47.50
3	1 in.	173 lbs.	53.00
5	1½ in.	214 lbs.	65.50
71/2	1½ in.	277 lbs.	89.50

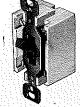
*See if Power Company permits use of this size Single Phase Motor on your line before ordering.



Adjustable Motor Base

Now you can use one motor with several machines! These fine quality stamped steel rails form a study, portable base for your motor so that it can be shifted instantly wherever you want it. Slack in the belt is taken up by a simple adjustment of motor base—the weight of the motor itself provides belt tension. Shipping weight per set 3 lbs.

84 WM 9831— Per set 89c



Reversing Switch

This handy switch enables you to reverse any split phase motor. Toggle flush type with bakelite handle. Designed to fit any switch

box
Complete with mounting screws. Shipping weight 9 ounces. 84 WM 9374......\$1.49

Motor Switch

The handiest Motor Switch ever devised! Mount it anywhere on your bench. Stretch the 8-ft, pull-cord under the front edge of your bench, so you can control motor from any point. Switch is double pole, for long life. Ship. wt. 10 oz.

84 WM 9832-Each \$1.49

Wards Powr-Kraft Electric Drills

JACOBS SELF-TIGHTENING CHUCKS - NEW DEPARTURE SEALED BALL BEARINGS



High Speed Utility Model

Save time, labor and money with Wards POWR-KRAFT Pencil Type Drill! Designed for close-quarter drilling, an excellent tool for pattern and cabinet work in the home or small workshop. It's so well built you'd expect to pay much more than Wards low price!

G. E. Universal motor operates on 110-120 volt A.C. or D.C. Spindle runs on New Departure radial thrust ball bearings—which means smoother running, longer service and big drill dependability. Double reduction gears—helical cut, as found only on the highest type drills-made of Chrome Vanadium steel for greater strength.

Ventilated aluminum alloy case is light weight, yet strong and durable. Jacobs self-tightening and key release chuck takes up to 1/4-inch straight shank drills. Will not stall with maximum size drill specified.

Improved pistol grip handle. closed toggle switch in body. 10-ft. safety cord of three-conductor cable which meets Underwriters' specifications is protected at drill by coil spring.

84 WM 1018—Ship. wt. 5 lbs. \$15.75



Pistol Grip Model FOR GARAGES AND SHOPS

A heavy duty Electric Drill, an ideal tool for continuous production service in garages or shops. Nationally known G. E. motor for 110-120 volt A.C. or D.C.—will not stall when used with capacity size drills. Armature shaft and spindle are mounted on New Departure bearings—which means smoother, quieter running, longer service. Ventilated aluminum alloy case. Heat treated helical cut gears of Chrome Vanadium steel. Enclosed double pole switch. Jacobs key chuck for straight shank drills. Removable plate for easy access to brushes. 10-ft. three-wire rubber safety cord with unbreakable plug. Easy Payments Page 2.

Article	Size.	Spind	le Speed	Shipping	Price
Number	Inch	No Load	Full Load	Weight	File
584 WM 1019	1/4	1900	1300	10 lbs.	\$29.45
584 WM 1020	3/8	1300	900	11 lbs.	34.95

Wards MASTER Quality Drill Set

Breast Plate Model

FOR HEAVY FRAME AND BODY WORK

A big, husly Drill, so powerful and so well built that it handles even the hardest jobs quickly and easily—bites through heaviest wood or toughest steel with little effort.

Extra heavy duty G. E. motor operates on 110-120 volt A.C. or D.C.—will not stall on any job when used with maximum size drills specified. Heavy New Departure ball bearings mean smoother, quieter running and longer life. Three-piece aluminum alloy motor housing—well ventilated for cooler operation. Heat treated helical cut gears of Chrome Vanadium steel for greater strength. Iccobs key chuck for streight shank drills.

Combination breast plate vitch. 10-ft. three-wire safety rubber cord with unbreakable plug—protectres with the coll spring. 1/2-inch size shipped from Stock.

7/8, 3/-in. sizes shipped

5/8, 3/4-in. sizes sh	ippeu	a r	actory in on	rougo: 2 doj 2 doj	, ,
Article Number	Size, Inch	No Loac	^	Shipping Weight	Price A
584 W.M 1021 284 W.M 1022	1/2 5/8	560 475 425	10	20 lbs. 21 lbs. 22 lbs.	\$41.95 48.95 .95

84 WM 1045—Carbon Steel. \$1.25 84 WM 1044—High Speed 2.65 **Individual Straight Shank Drills**

Straight shank drills in a handy container that enables

84 WM 1063—Finest quality high speed steel. State diameter wanted. Shipping weights 2 to 6 ounces. Diam. In. $\frac{1}{16}$ $\frac{3}{32}$ $\frac{1}{8}$ $\frac{5}{32}$ Lgth. In. $\frac{21}{2}$ $\frac{23}{4}$ $\frac{3}{3}$ $\frac{31}{4}$ Each... 13c 17c 21c 23c 3/16 1/4 3/8 3 1/2 4 5 29c 40c 75c



MONTGOMERY WARD & CO.

ST. PAUL

BALTIMORE

PORTLAND

OAKLAND

FT. WORTH

DENVER

ALBANY

HOW TO SEND MONEY

Post office money order, express money order, bank draft or personal check . . . all are safe in the mails and are acceptable to us . . . But if for any reason you can't use any of these methods, wrap the money in heavy paper and register the letter that carries it . . . Goods needed quickly may be ordered and paid for by telegraph . . . Include full address in telegram.

MONTGOMERY WARD ORDER BLANK

BE SURE TO INCLUDE POSTAGE WITH PARCEL POST ORDERS

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MONTGOMERY WARD Budget Plan Order Blank

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otherwise one signature only is required.